



FIG. 1

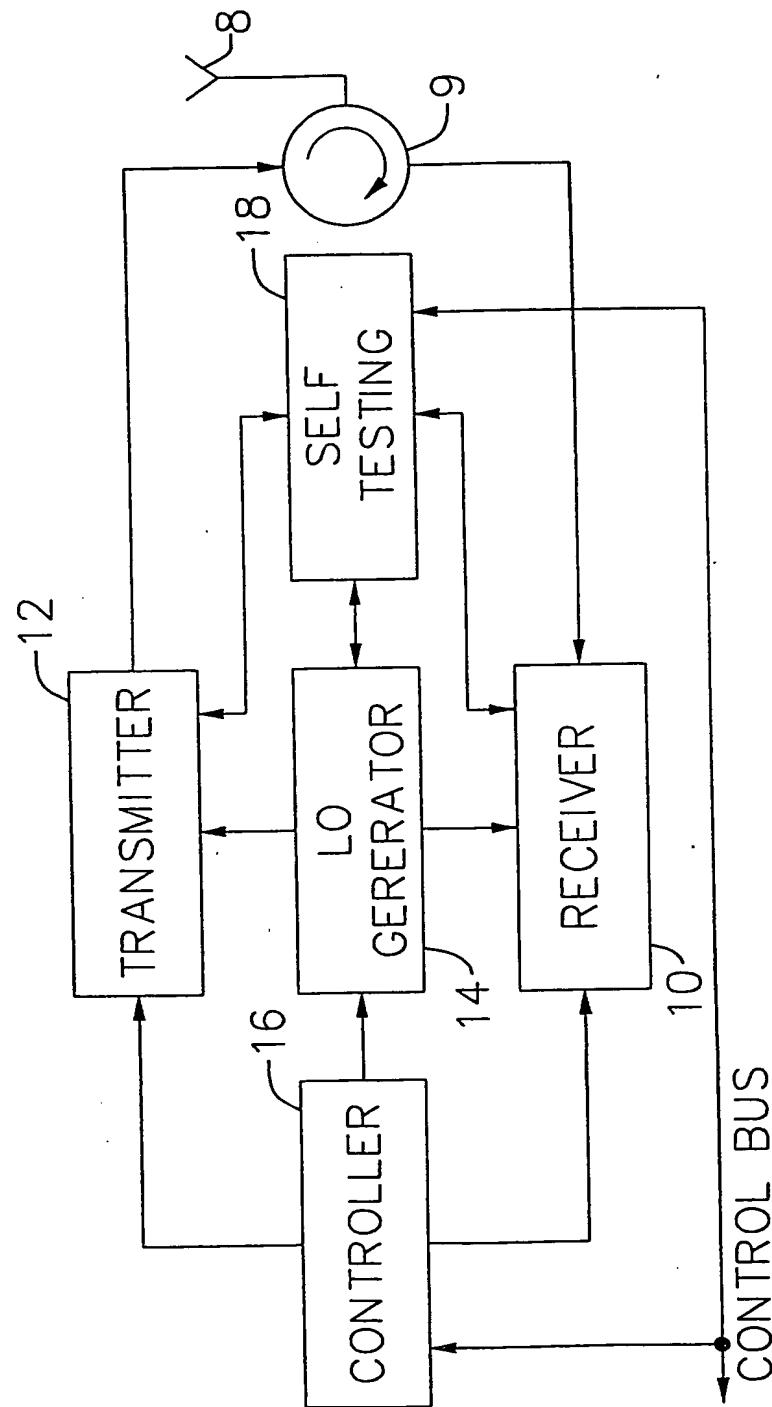


FIG. 2

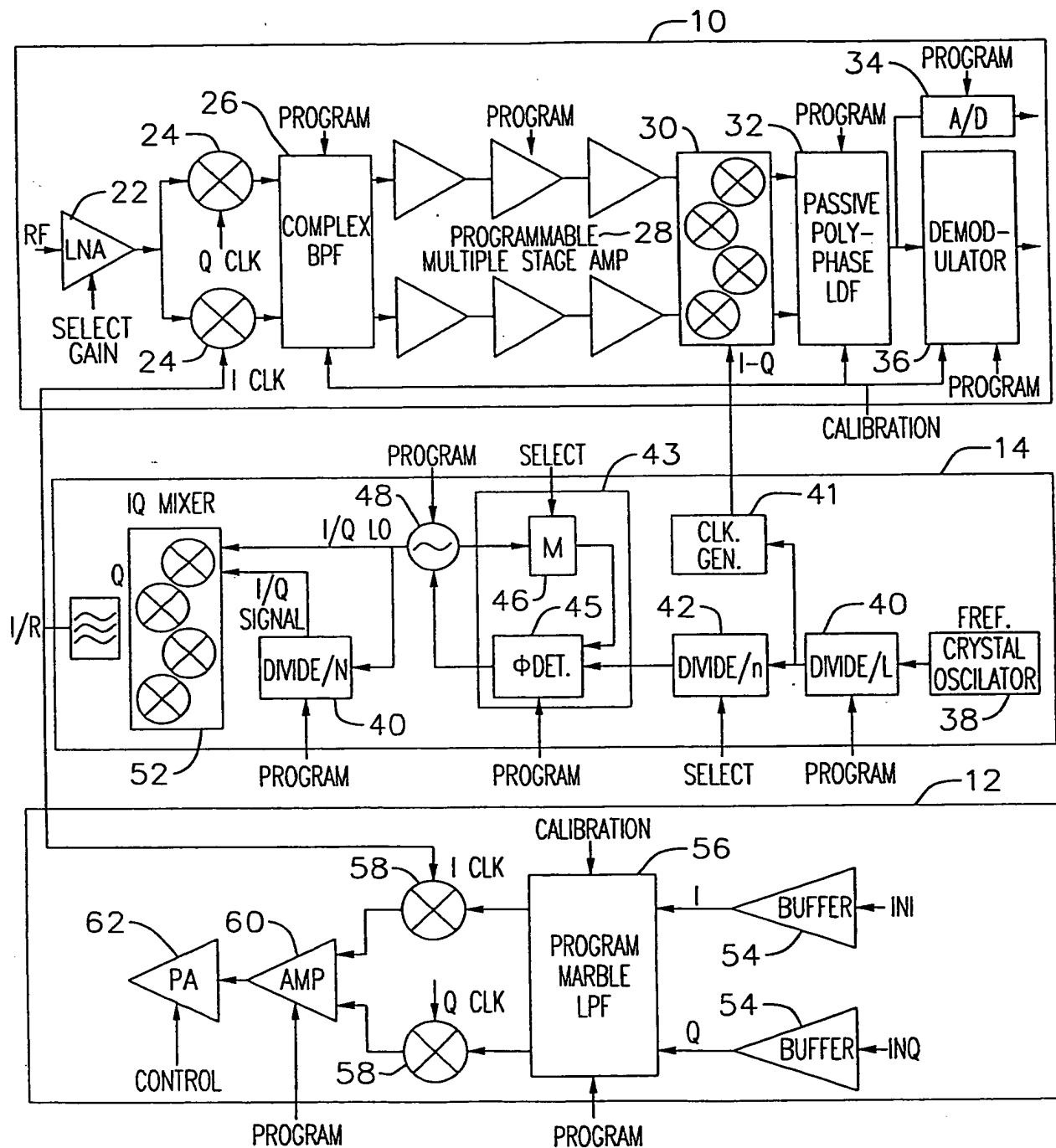


FIG. 3

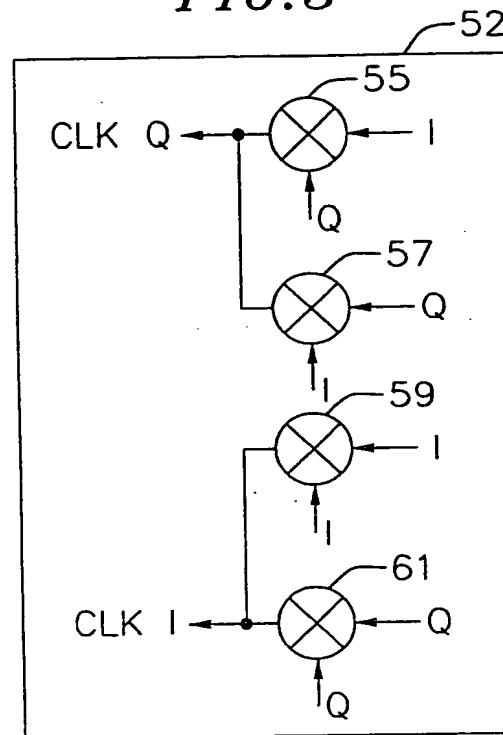


FIG. 4

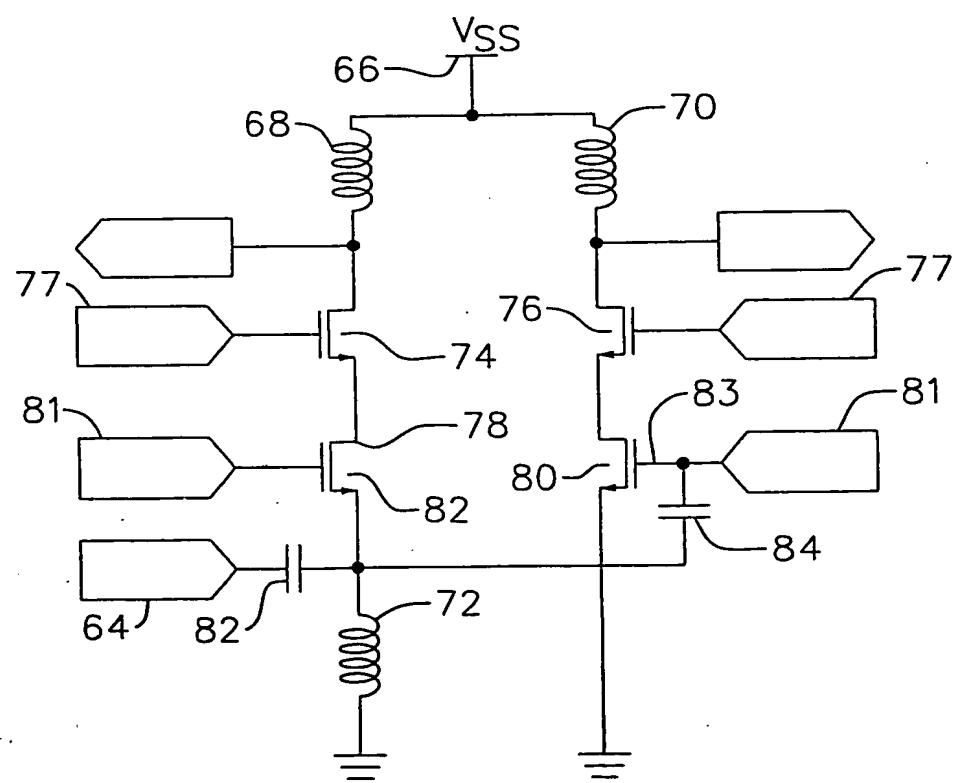




FIG. 4(a)

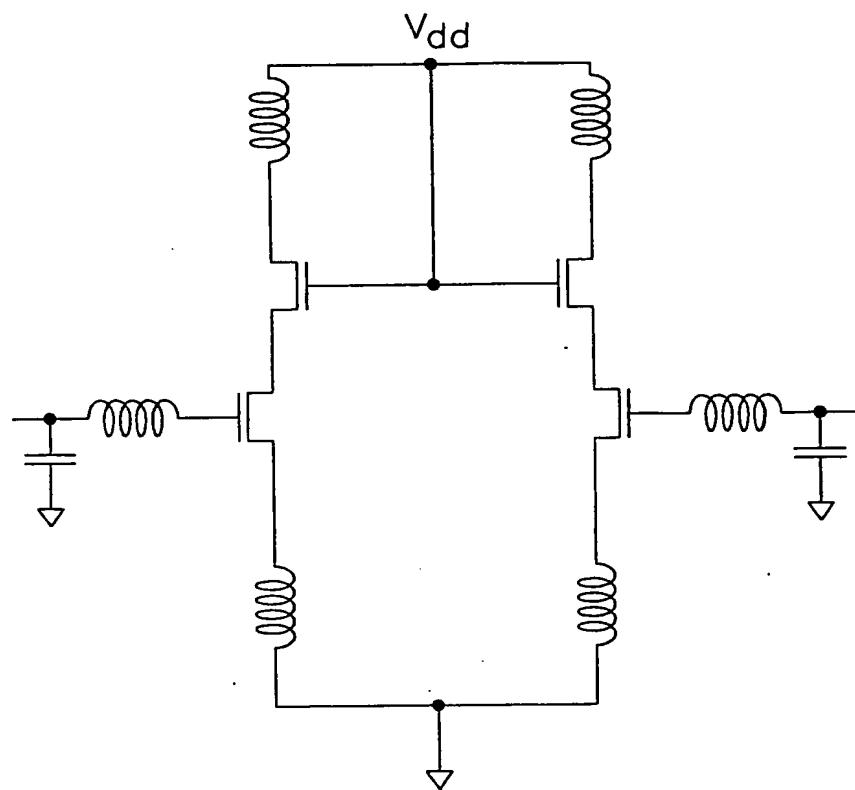




FIG. 5

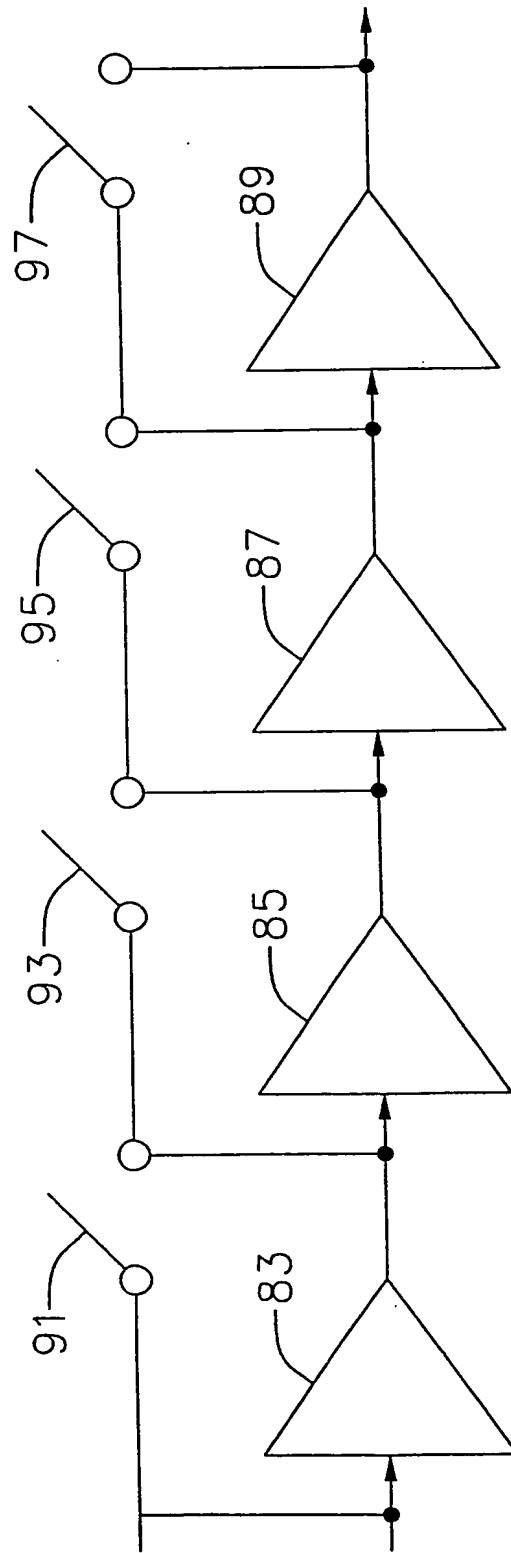




FIG. 6

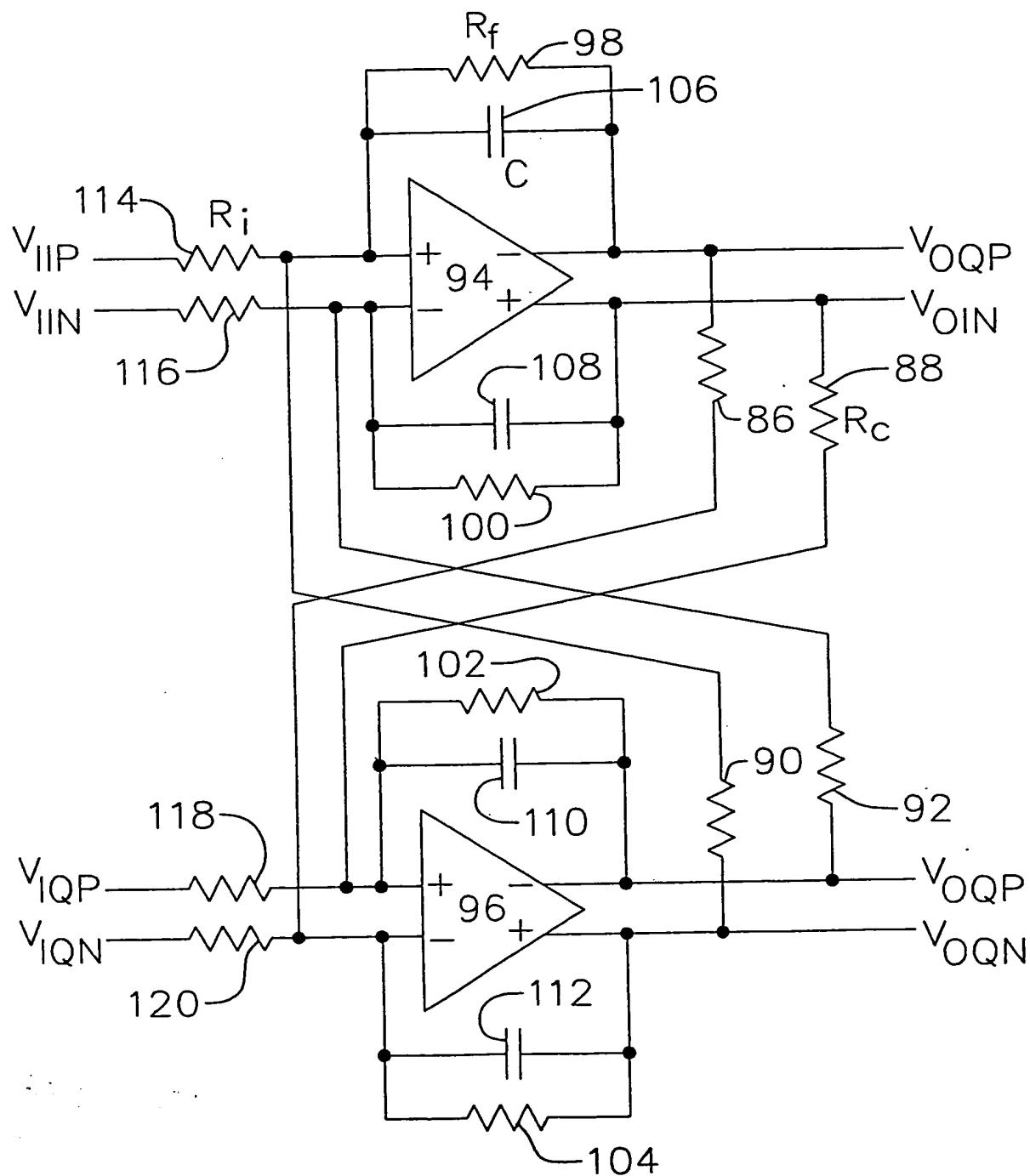


FIG. 7

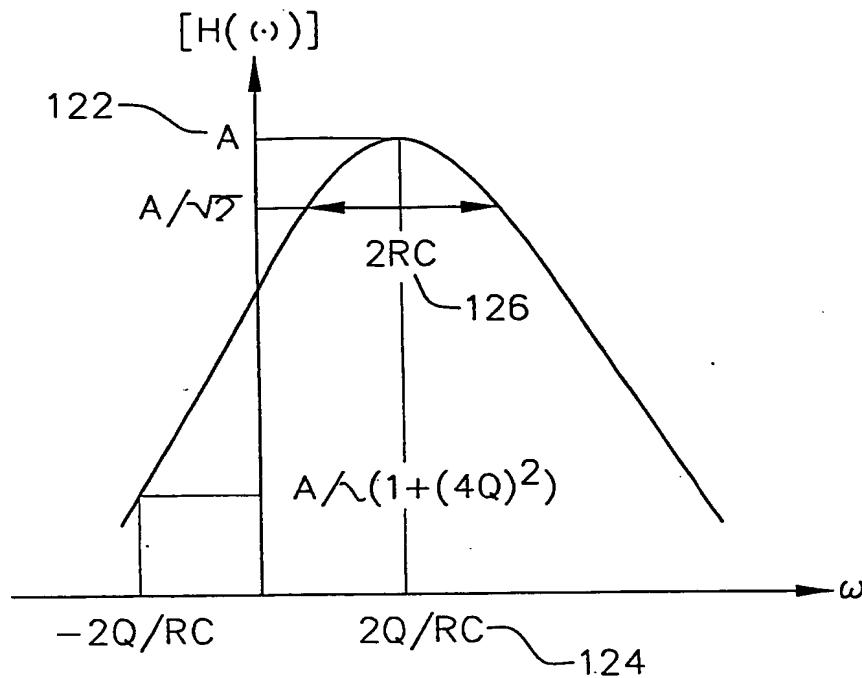


FIG. 8

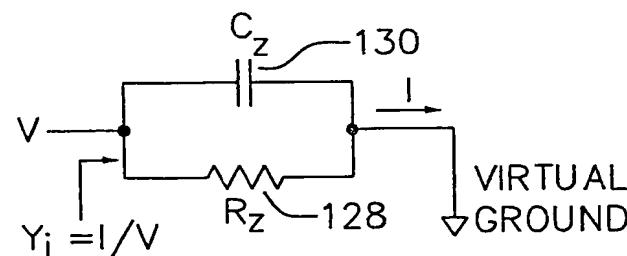


FIG. 9

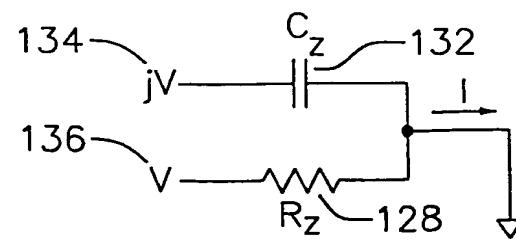




FIG. 10

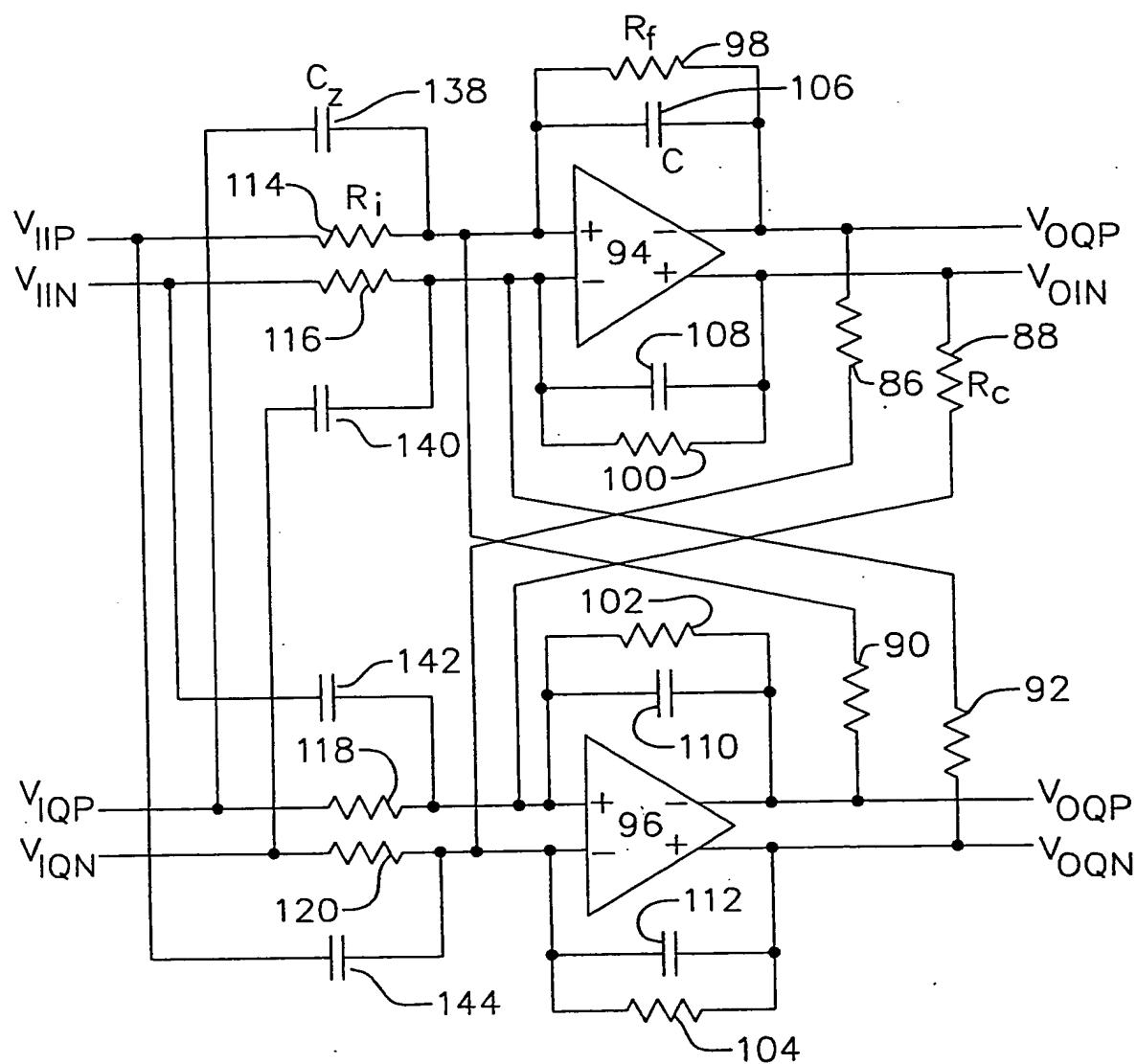
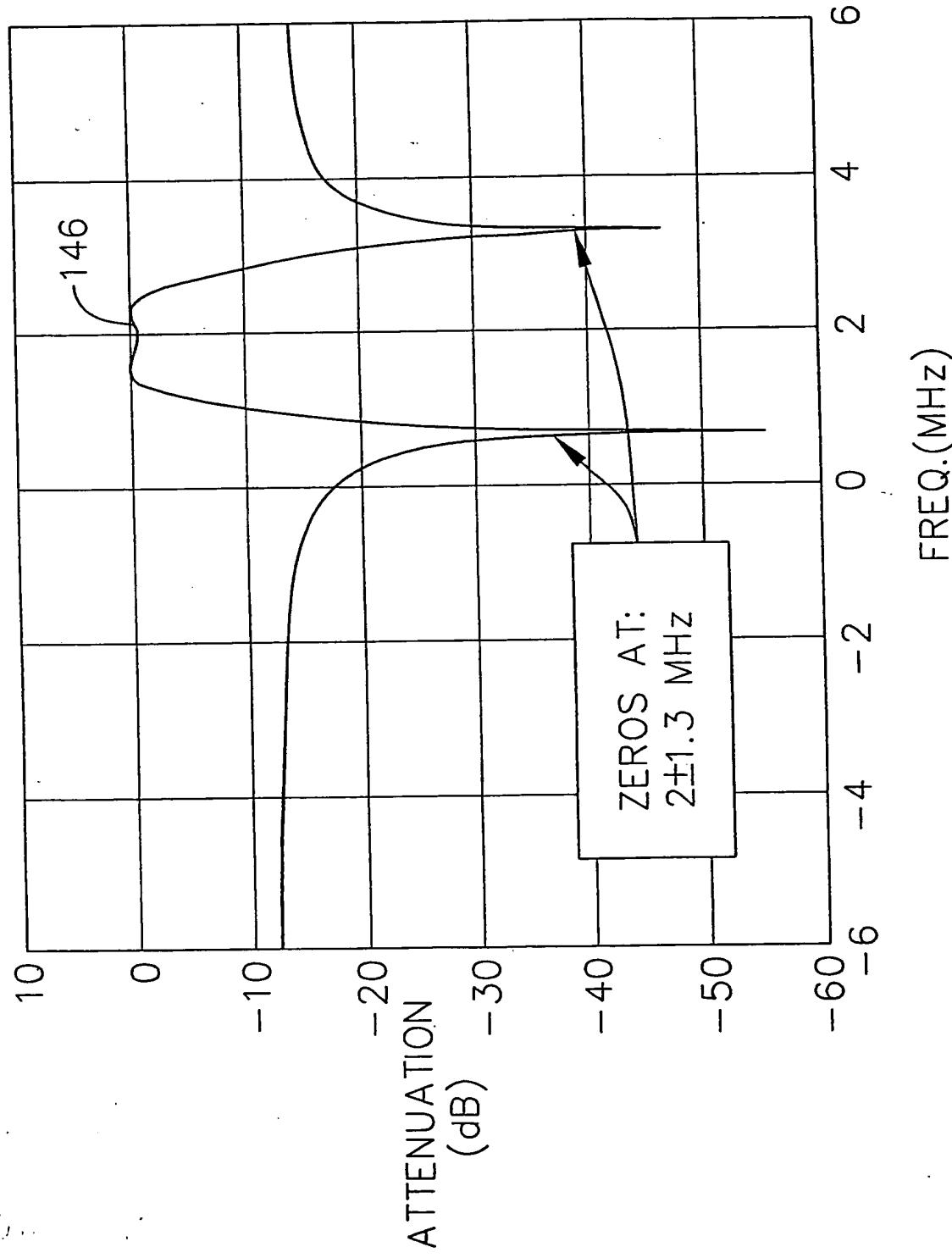


FIG. 11





10/53

FIG. 12a

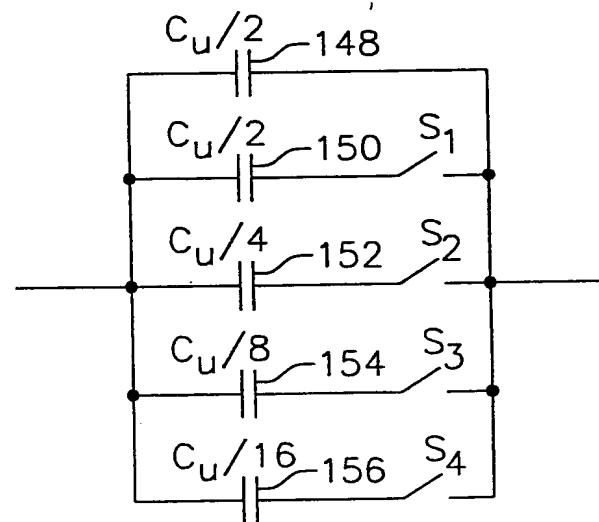


FIG. 12b

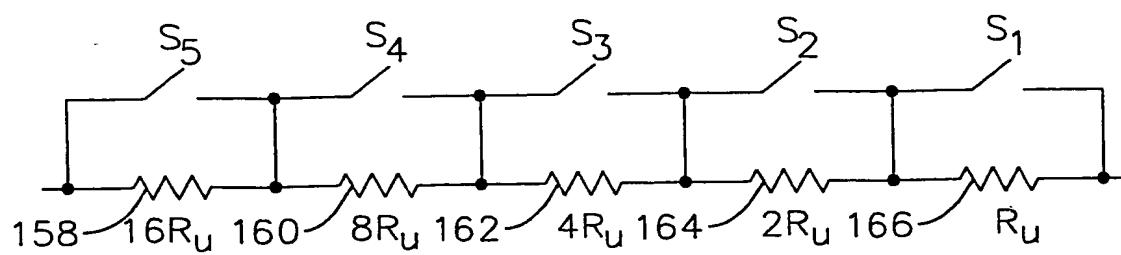




FIG. 13

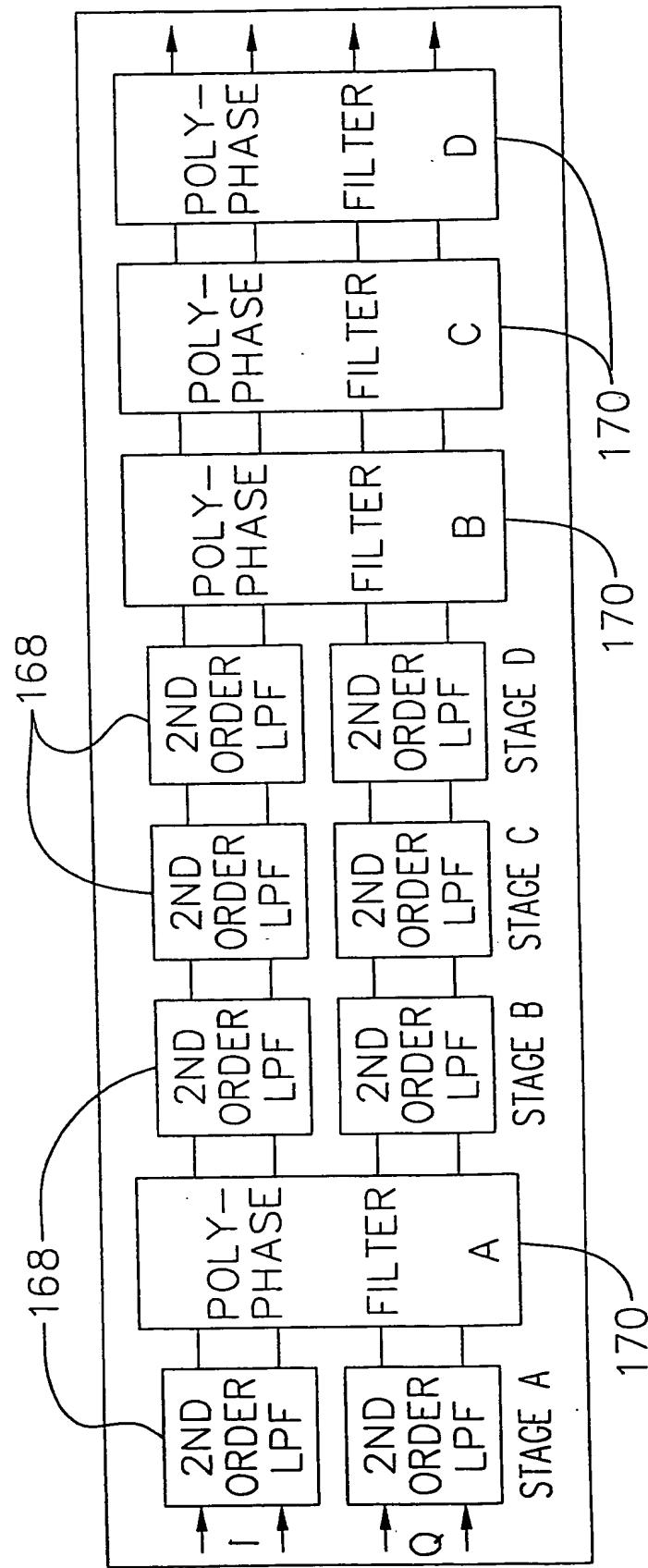




FIG. 14

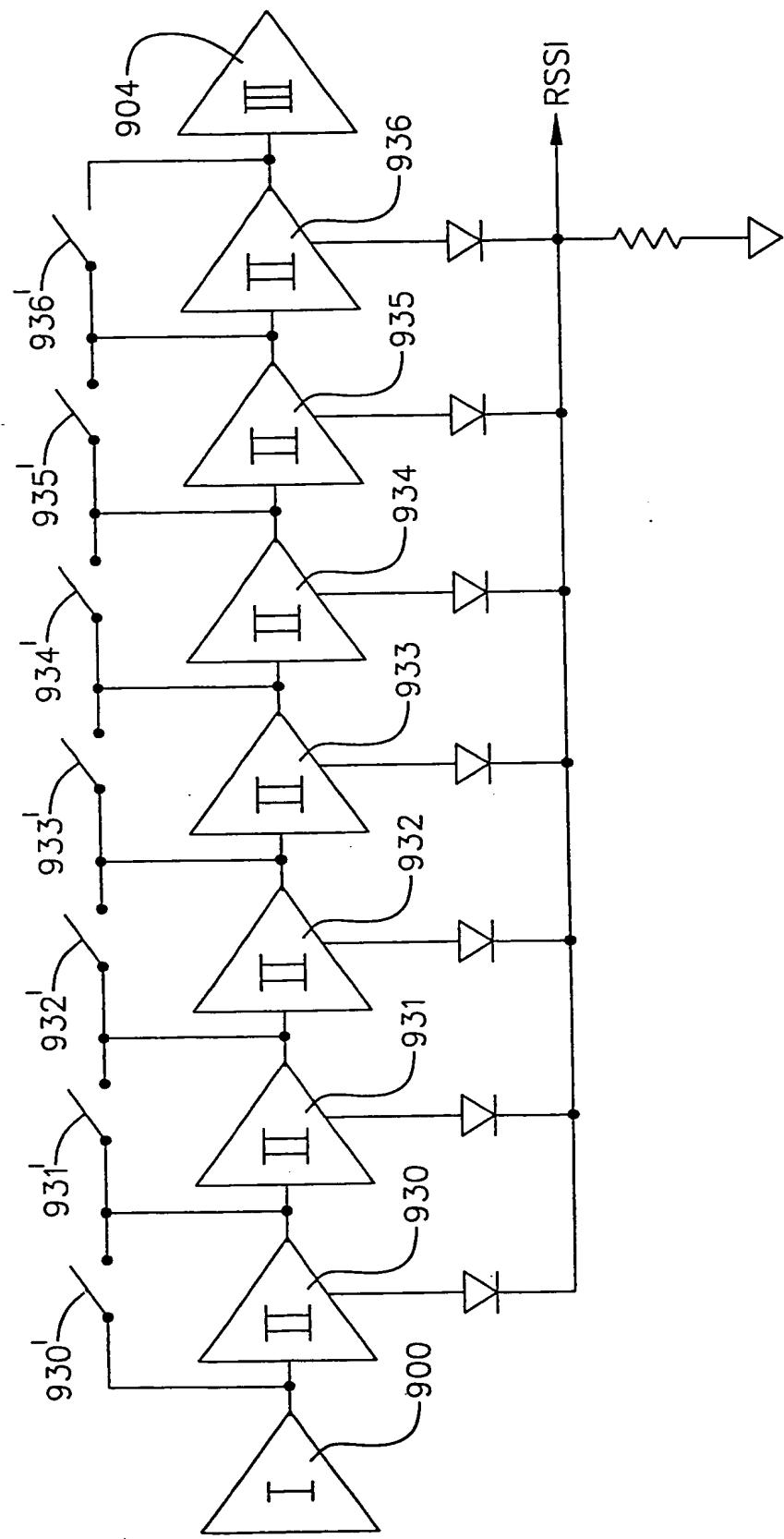




FIG. 15

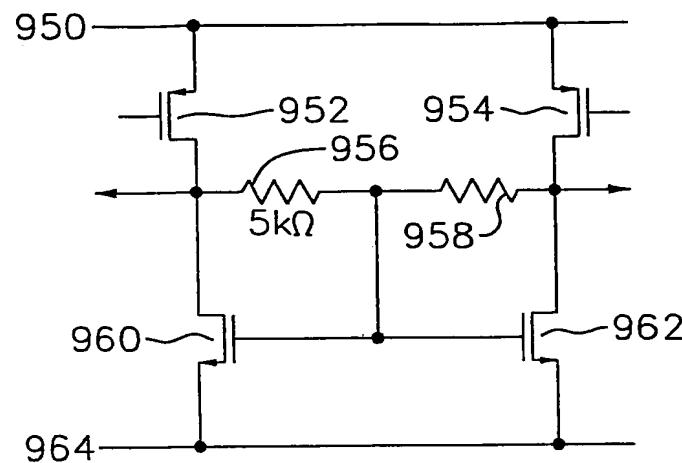
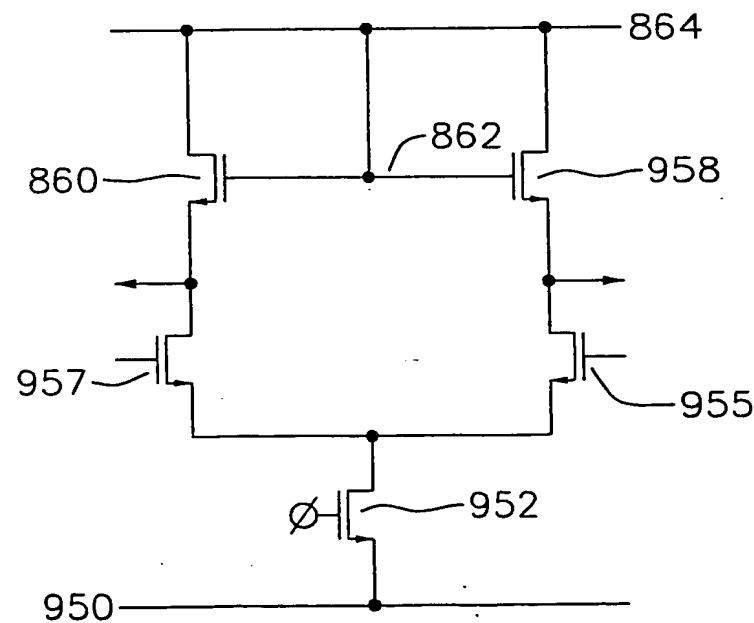


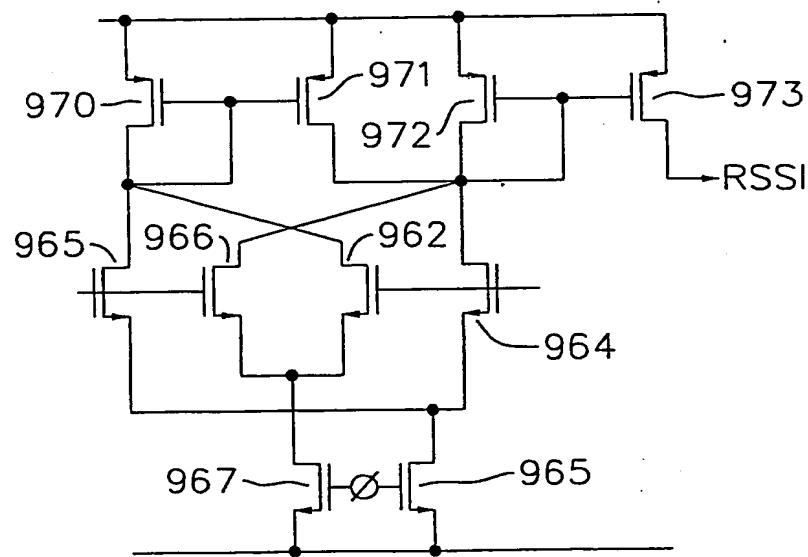
FIG. 16a



JAN 30 2004

14/53

FIG. 16b



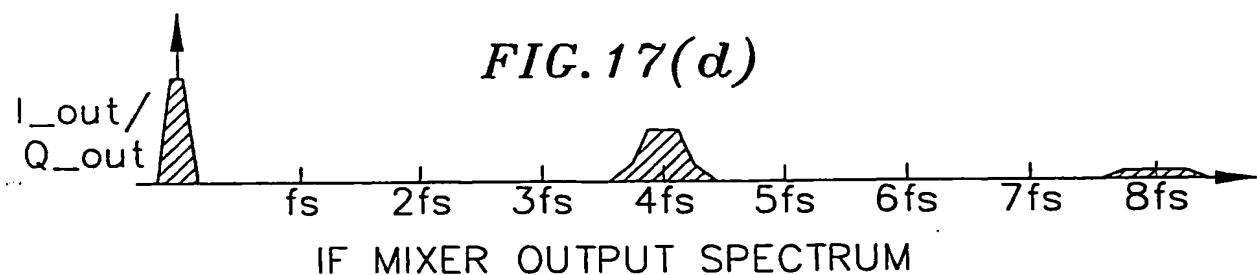
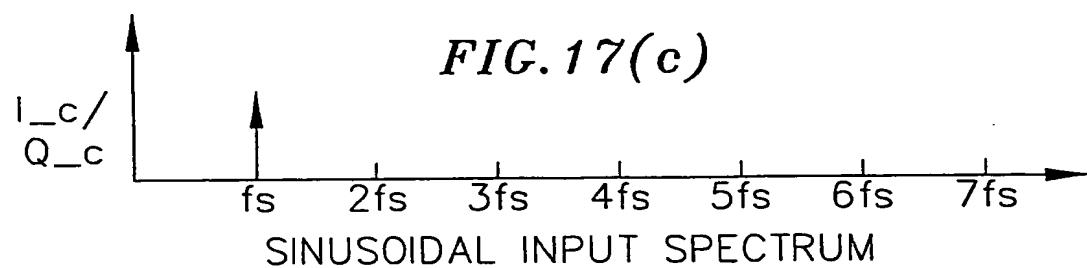
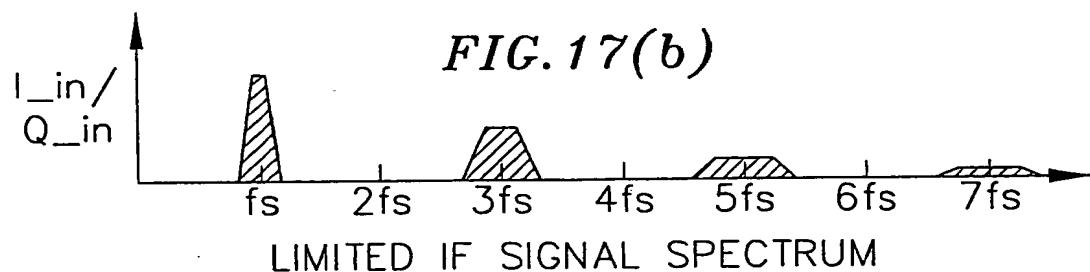
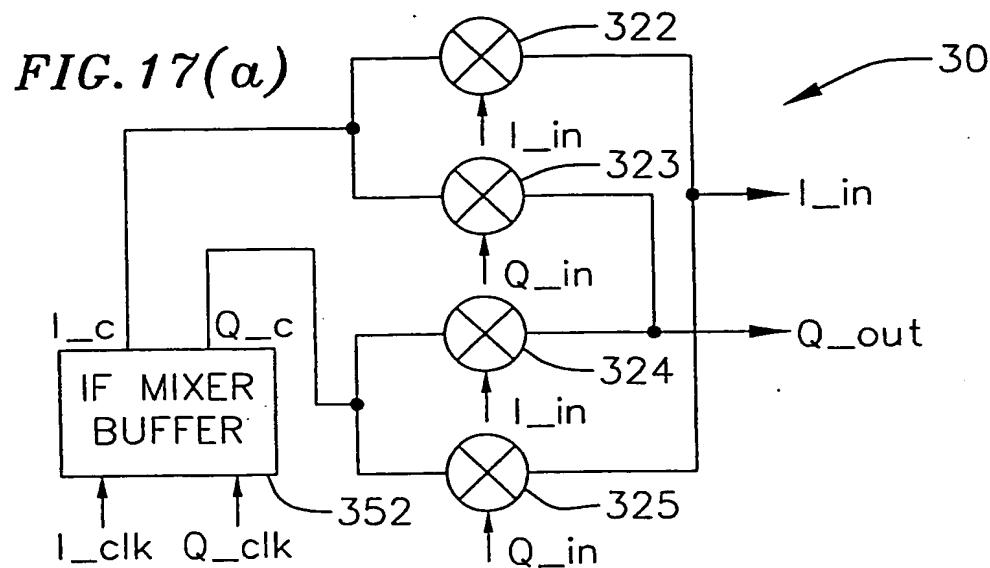




FIG. 18

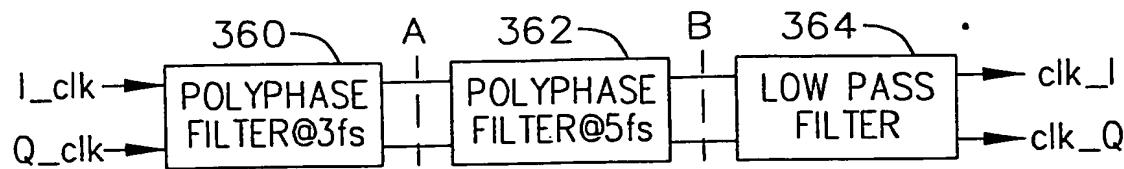


FIG. 19(a)

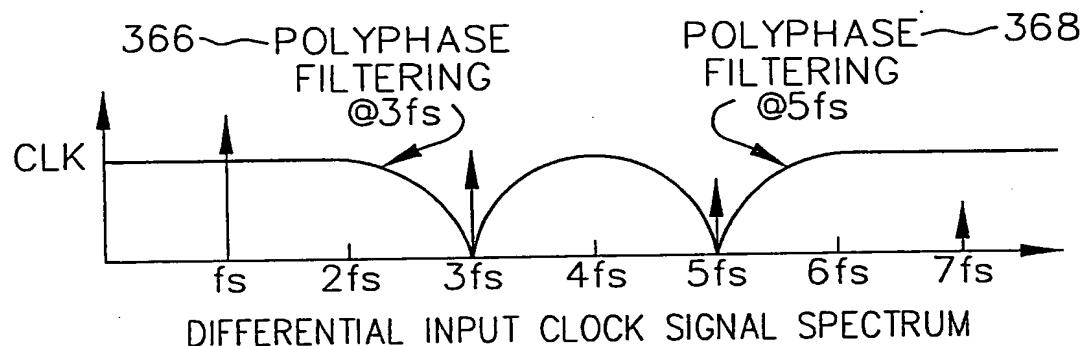


FIG. 19(b)

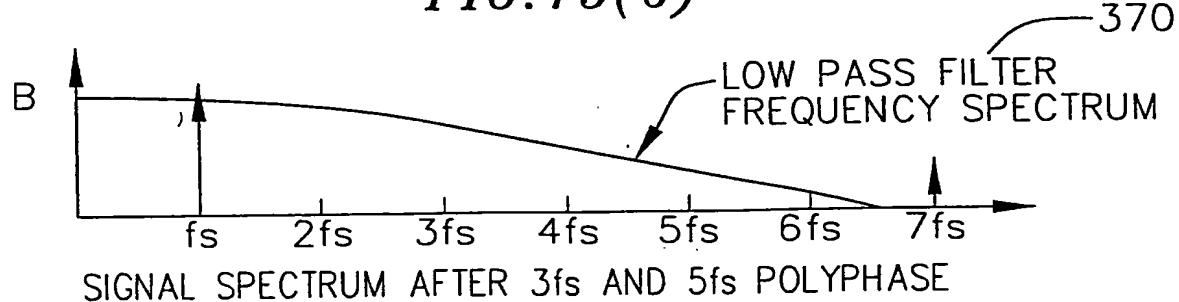


FIG. 19(c)

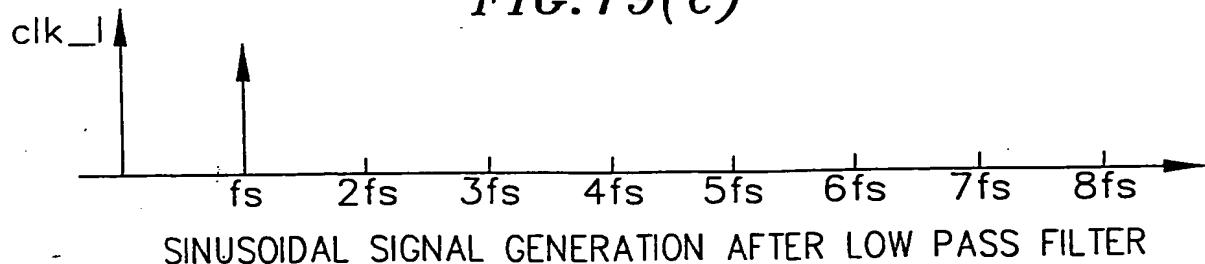




FIG. 19d

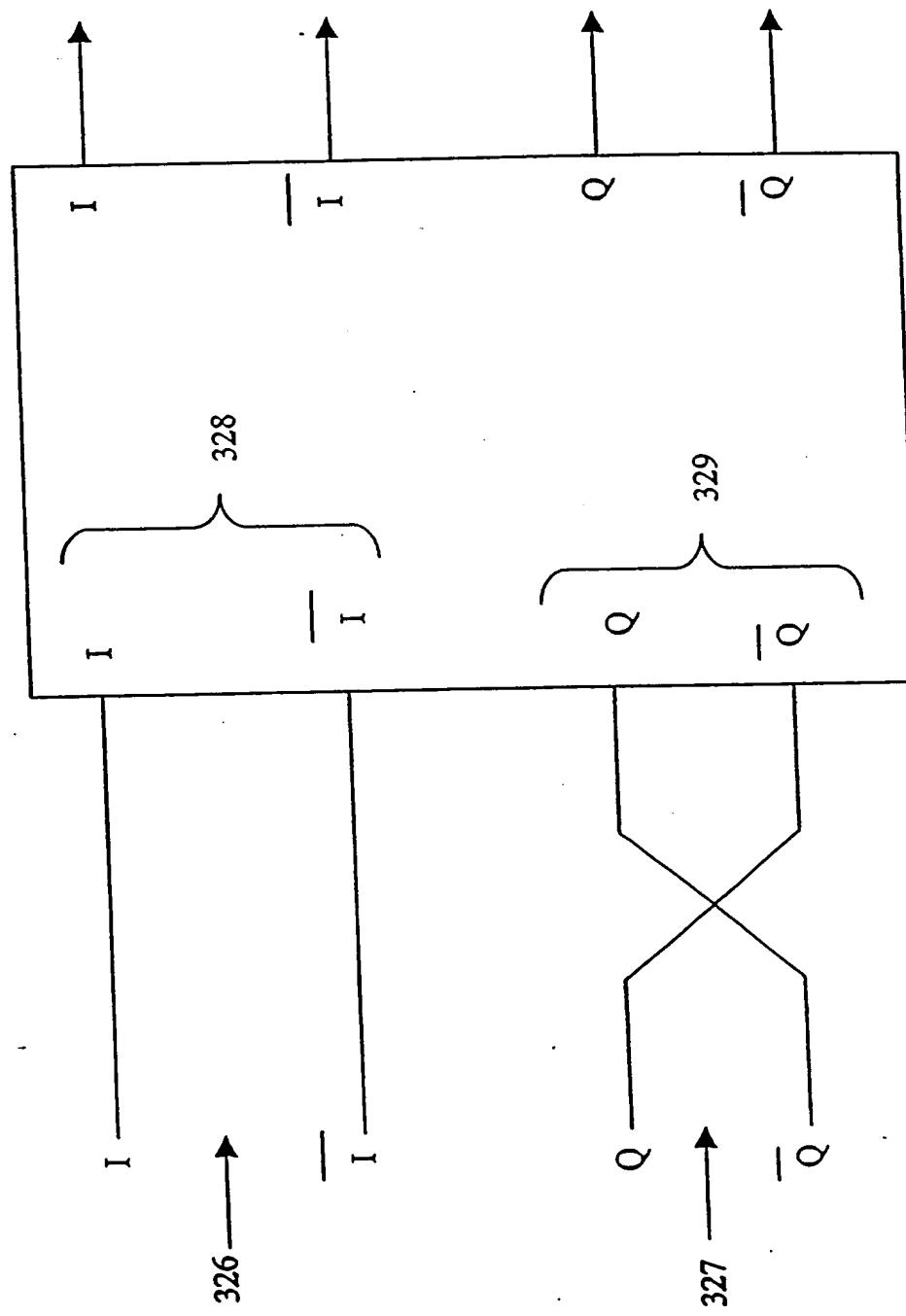




FIG. 19e

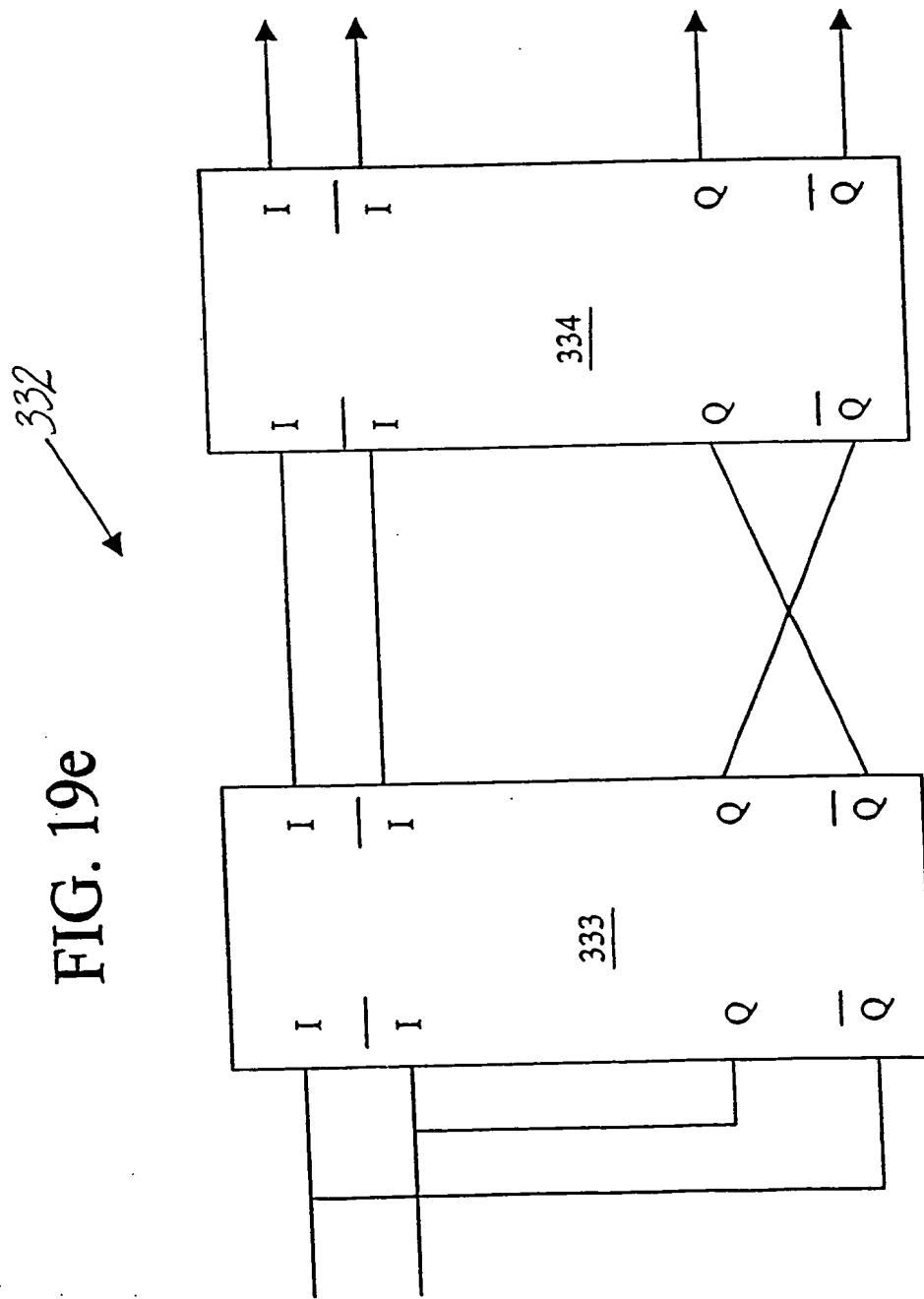


FIG. 19f

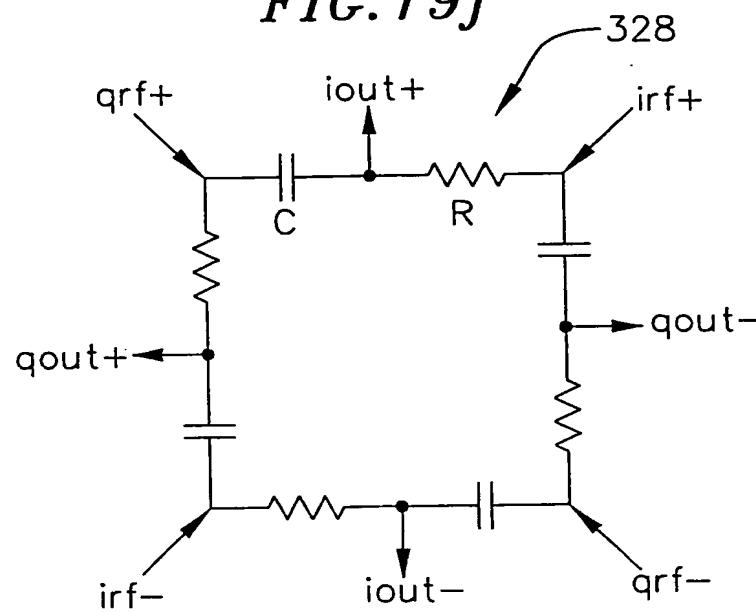
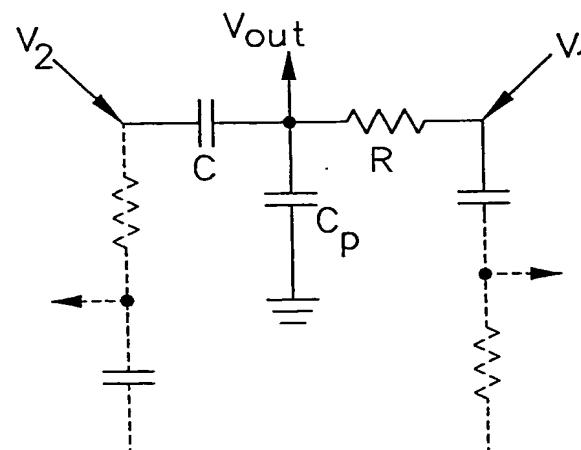


FIG. 19g



$$\omega_p = \frac{1}{R(C_p + C)}$$

$$\omega_o = \frac{1}{RC}$$

$$V_{out} = \frac{V_1}{R(C_p + C)s + 1} + \frac{V_2 RC s}{R(C_p + C)s + 1}$$



FIG.20(a)

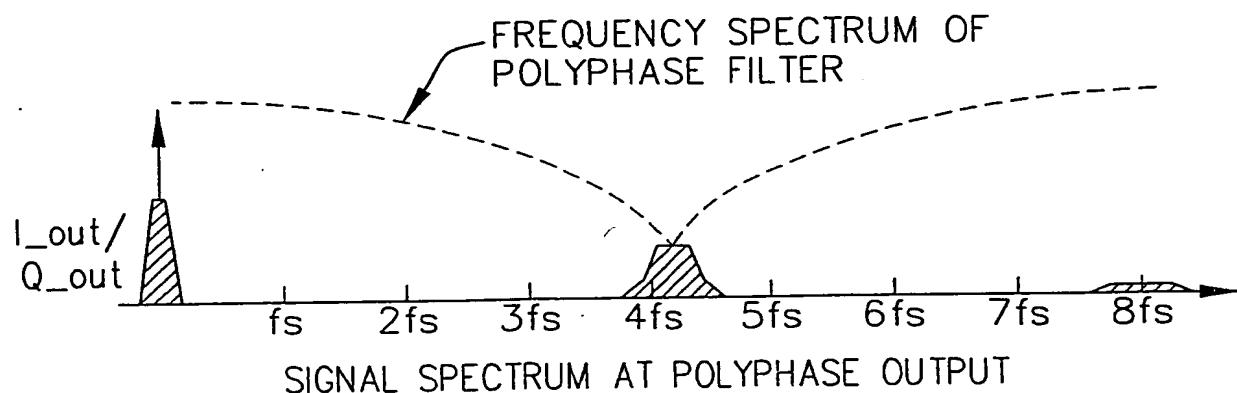


FIG.20(b)

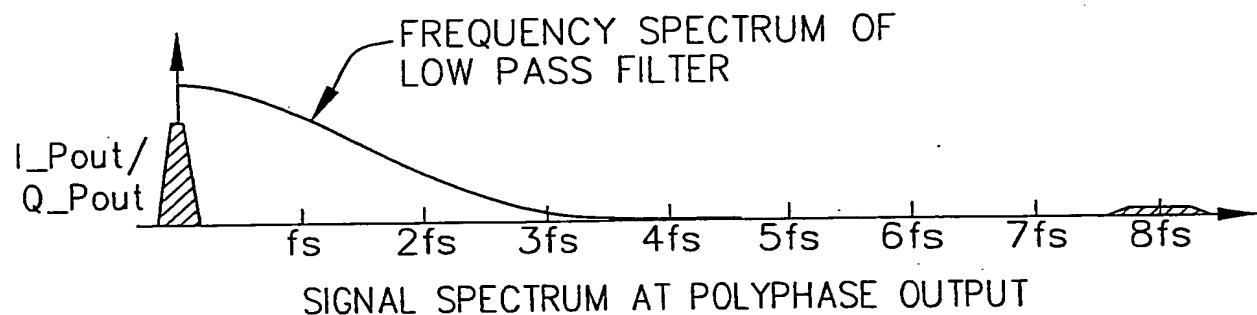


FIG.20(c)

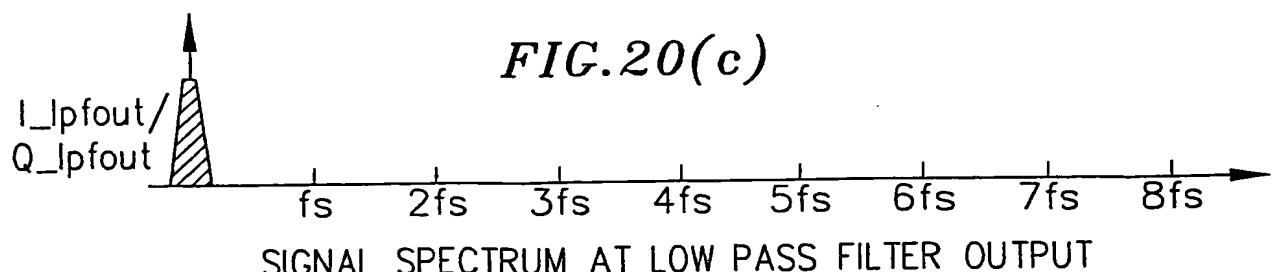


FIG.21

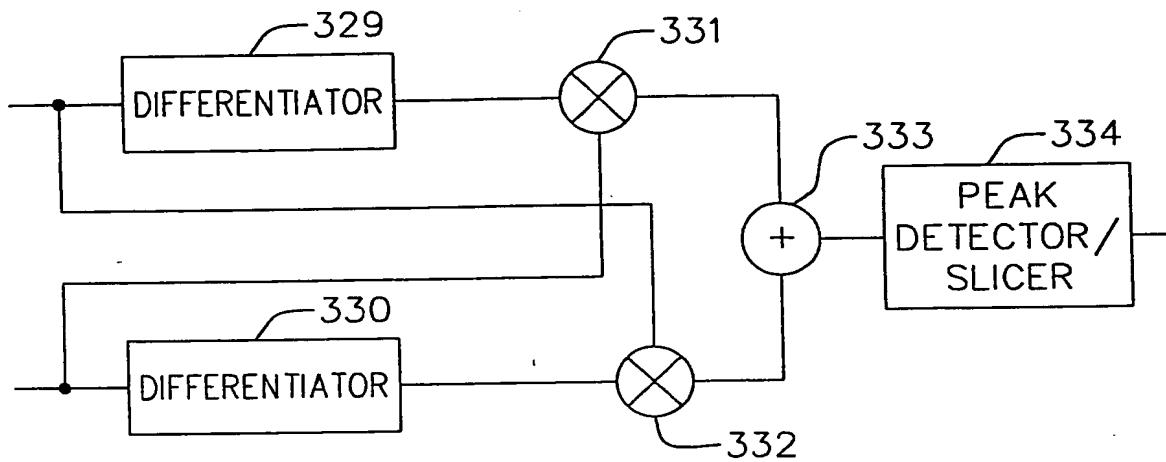


FIG.22

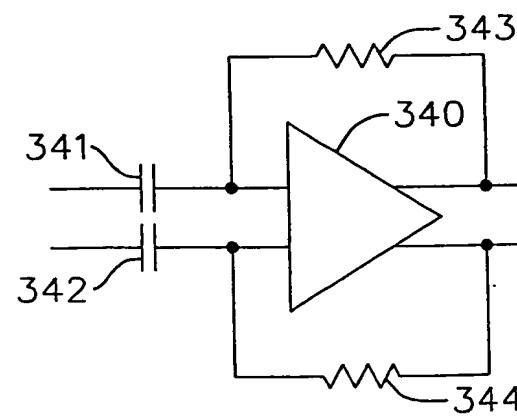


FIG.23

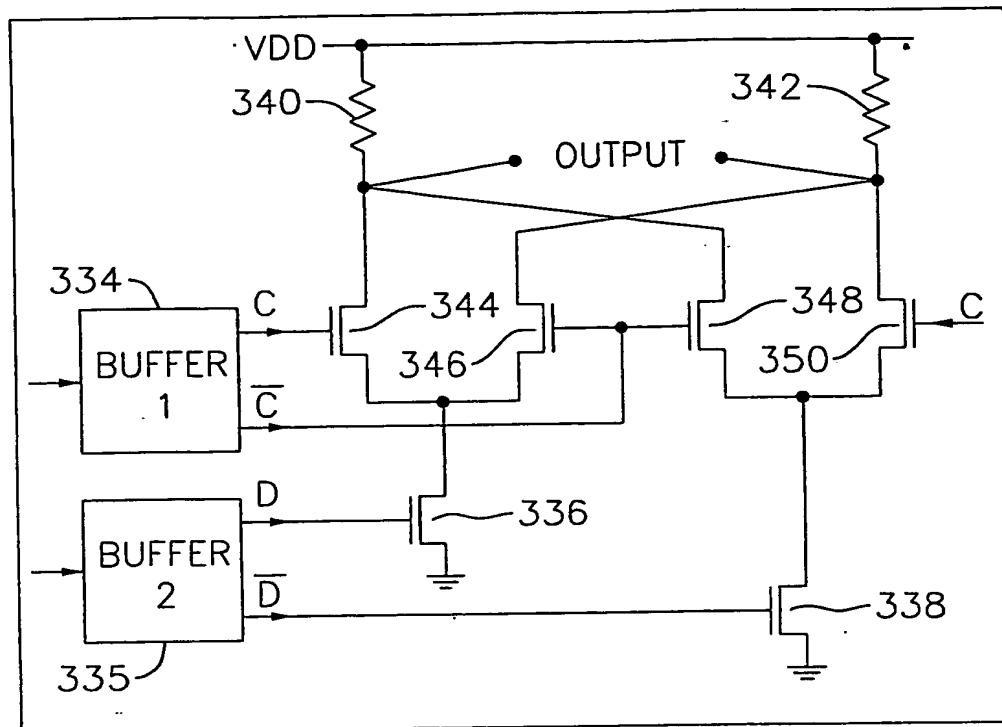


FIG.24

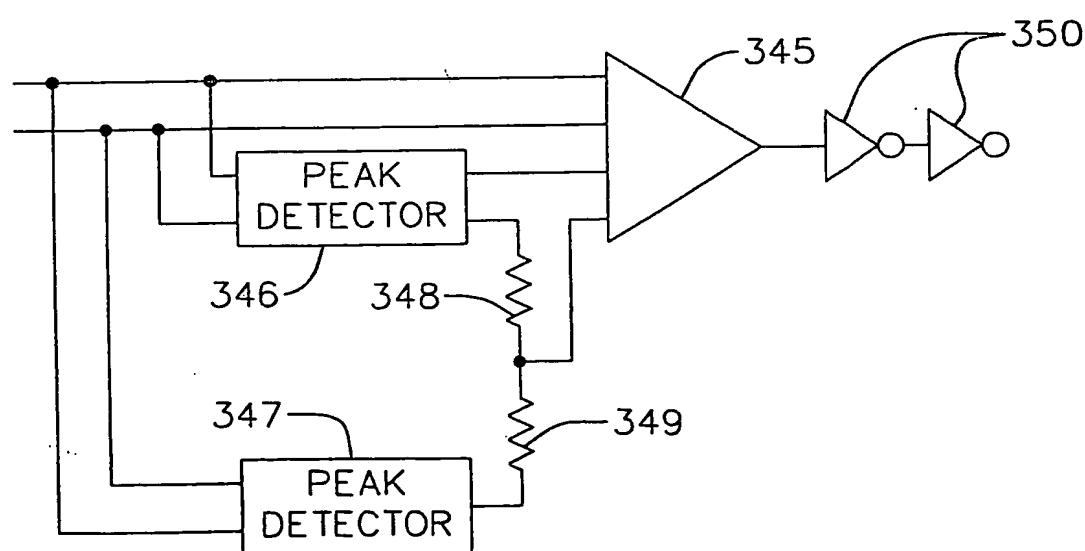


FIG. 25

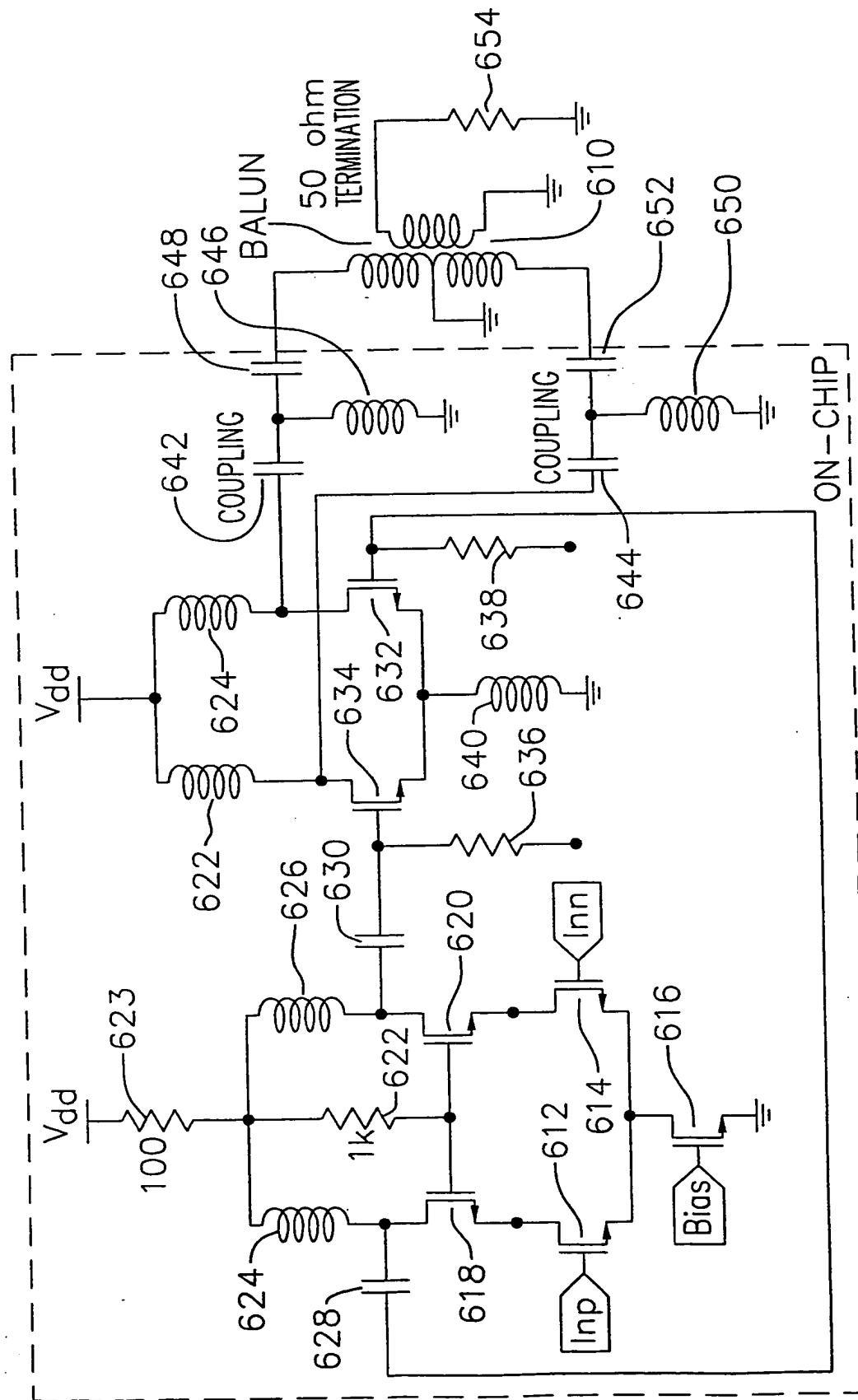


FIG. 26a

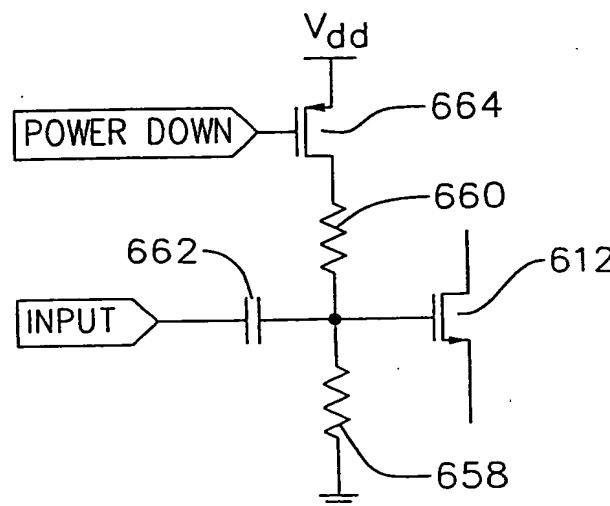


FIG. 26b

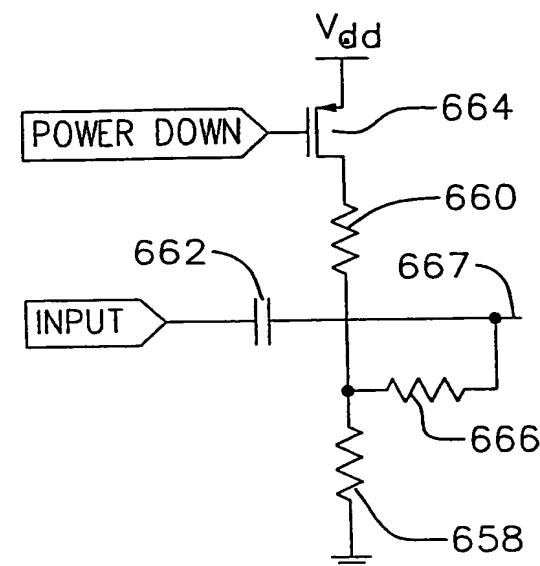


FIG. 27

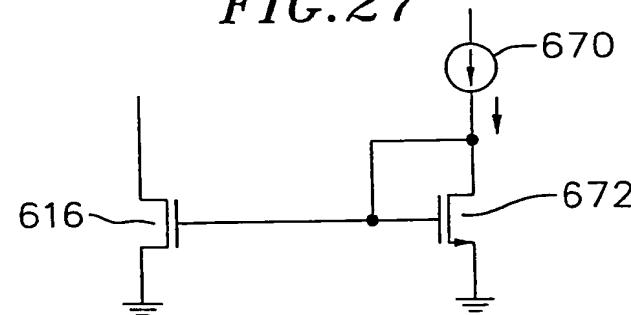


FIG. 28

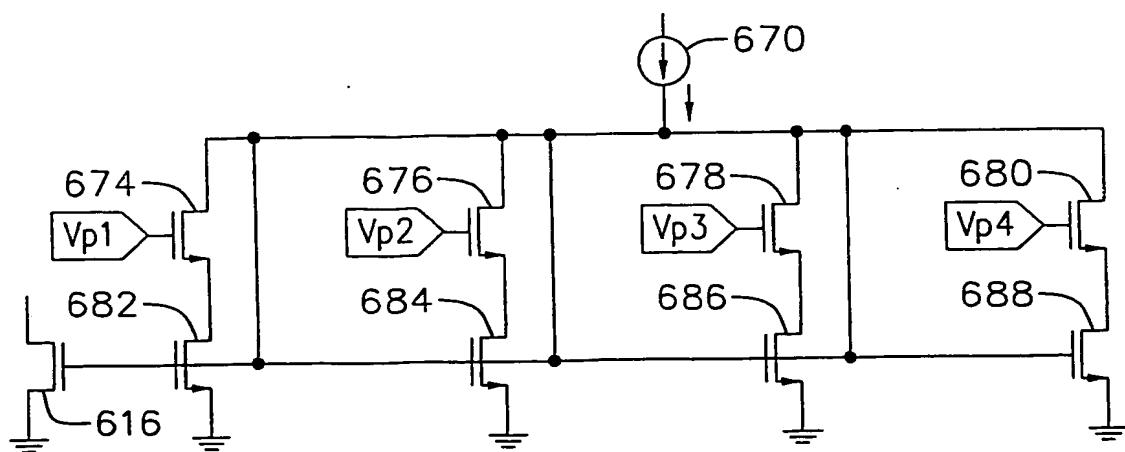




FIG. 29

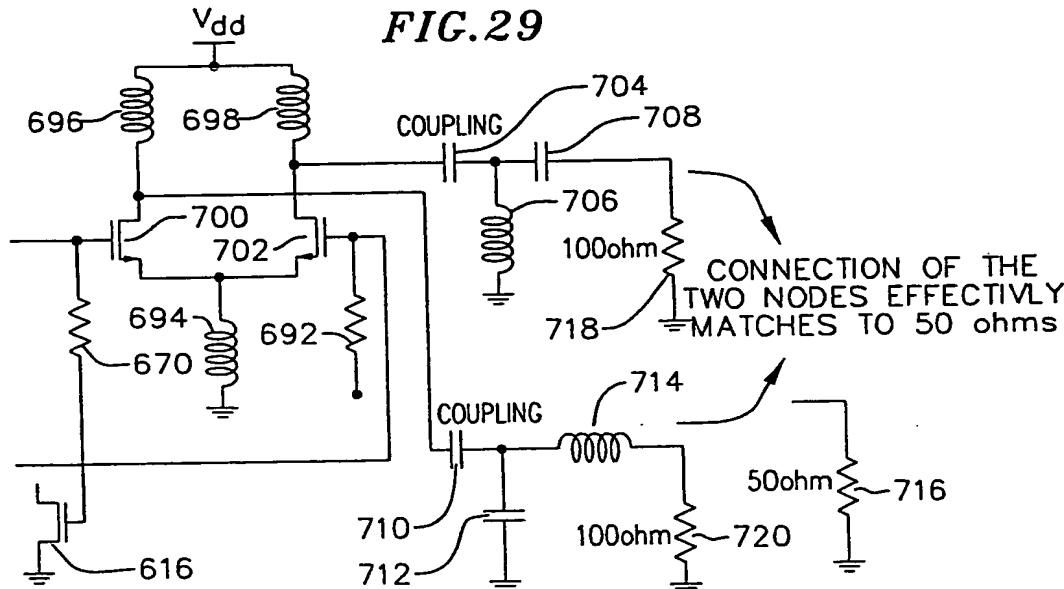
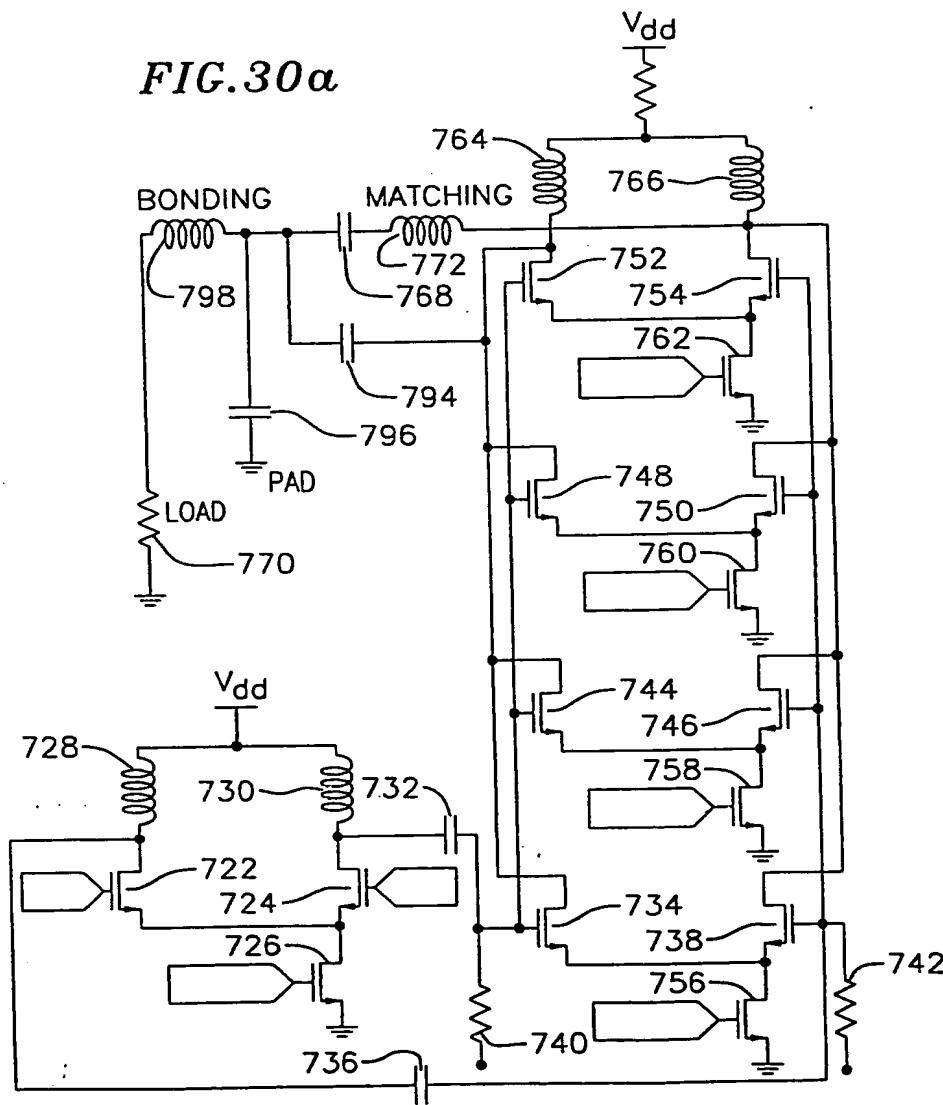


FIG. 30a



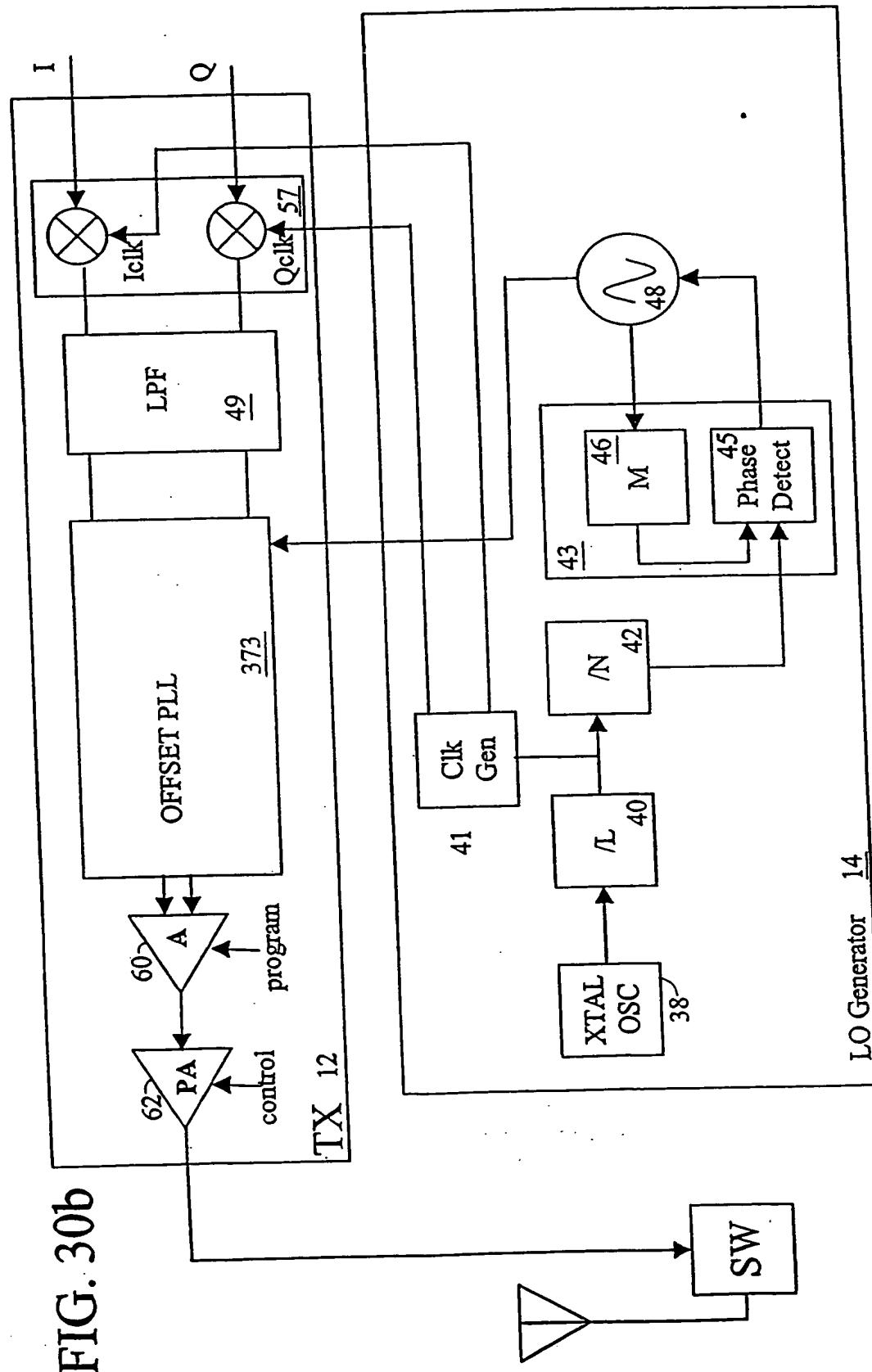


FIG. 30b



FIG. 30c

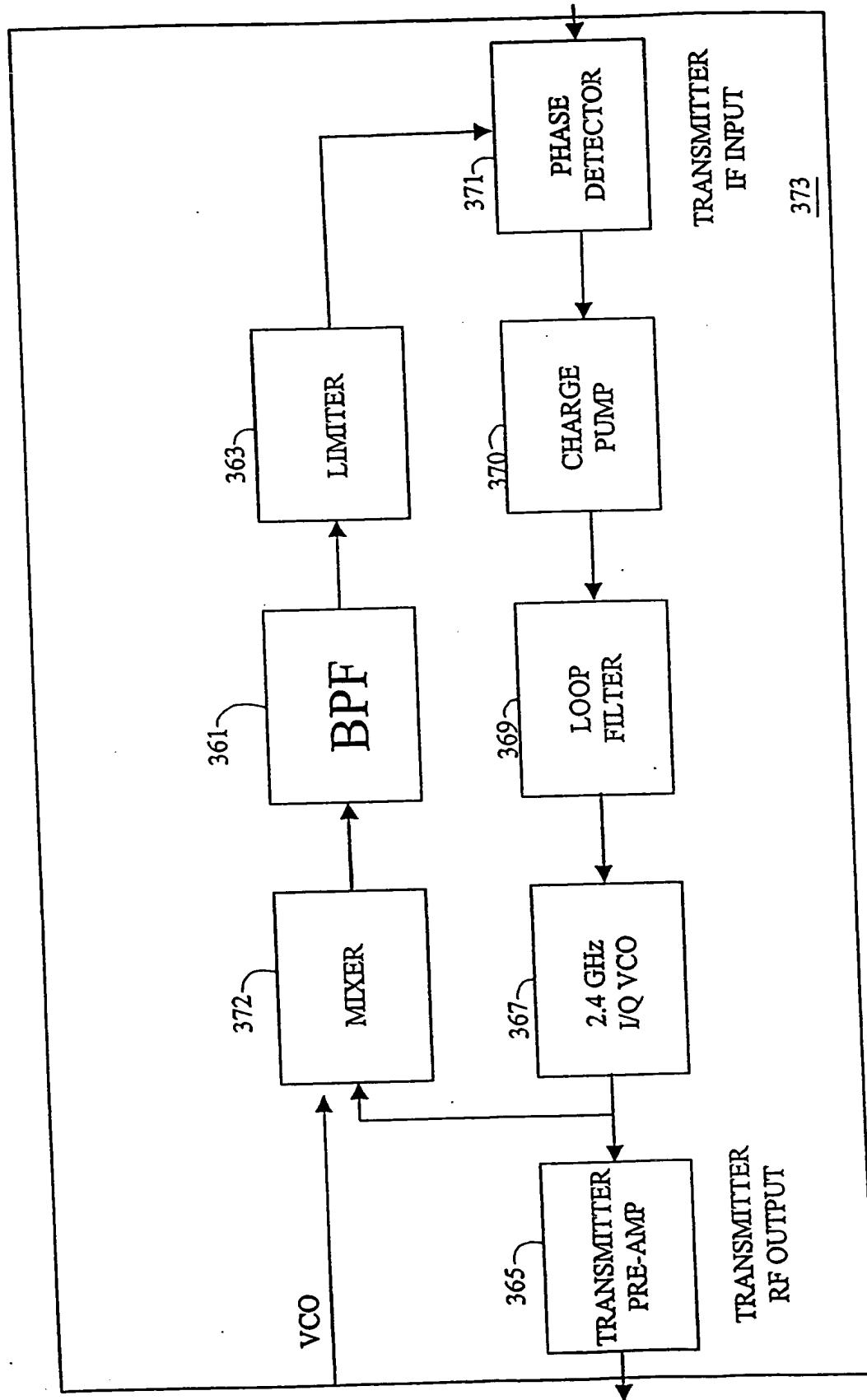




FIG. 30d

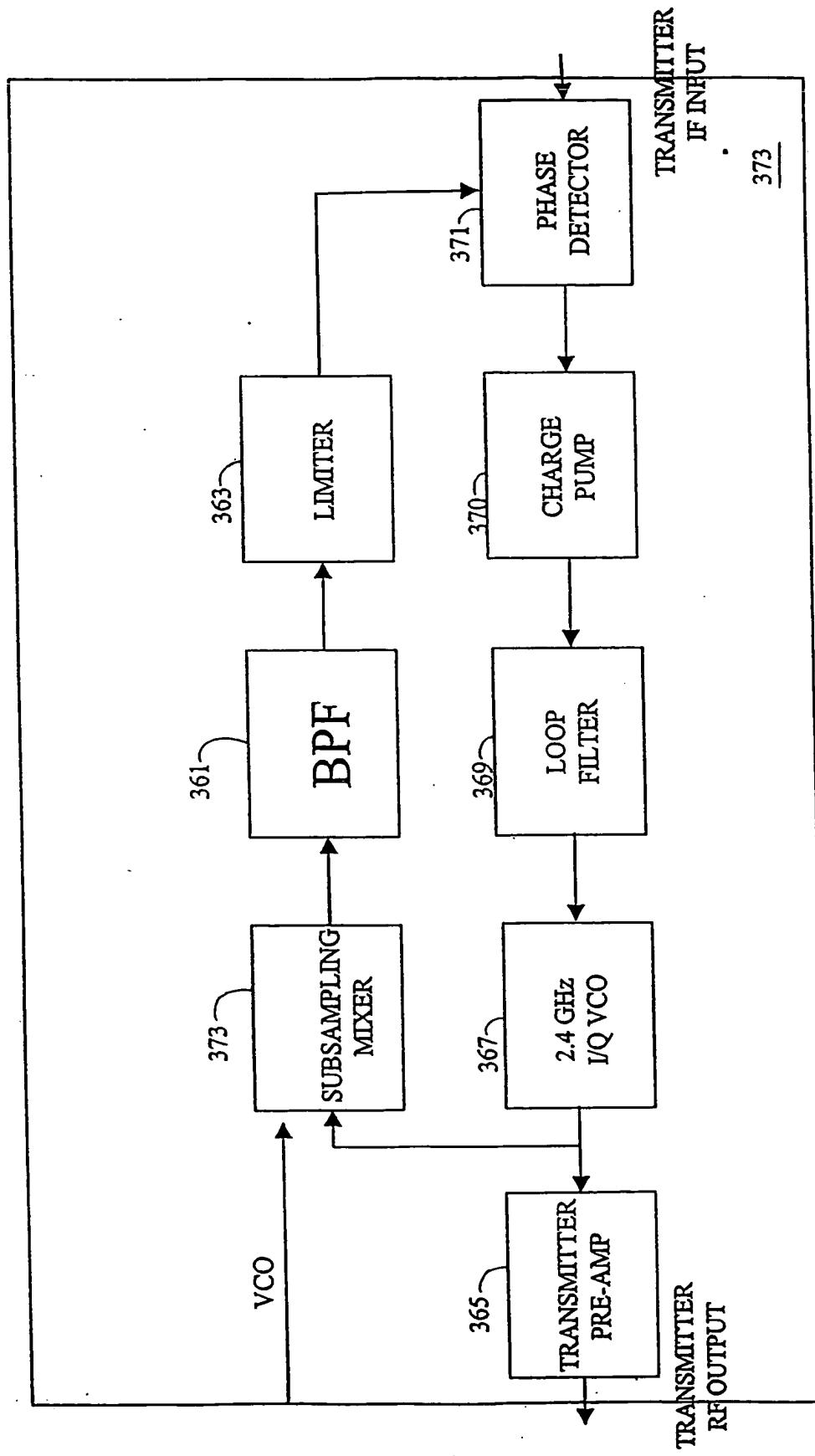
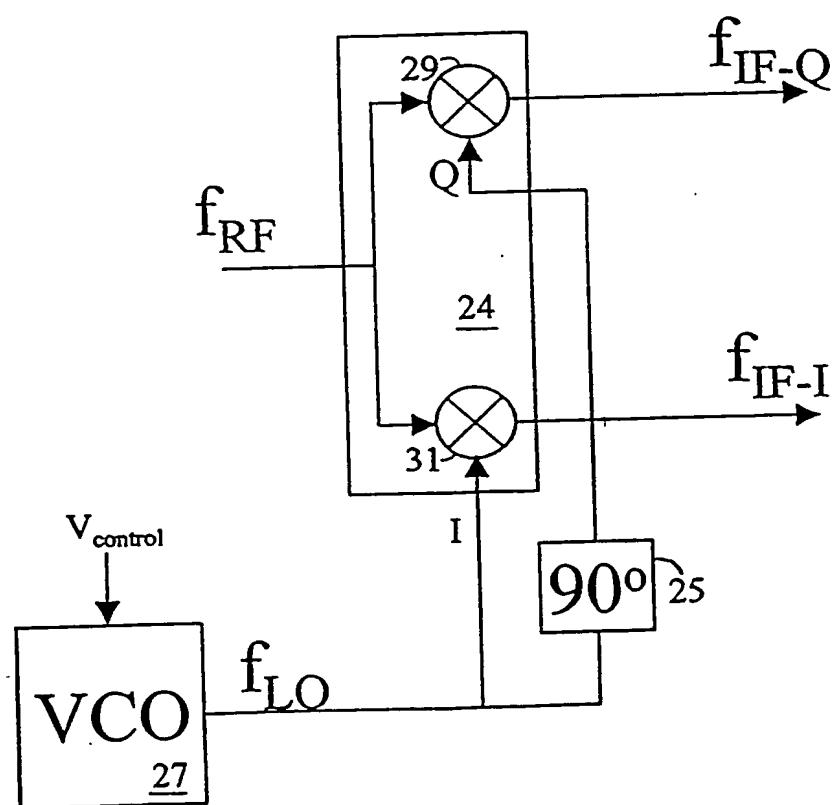


Fig. 30e





30/53

Fig. 30f

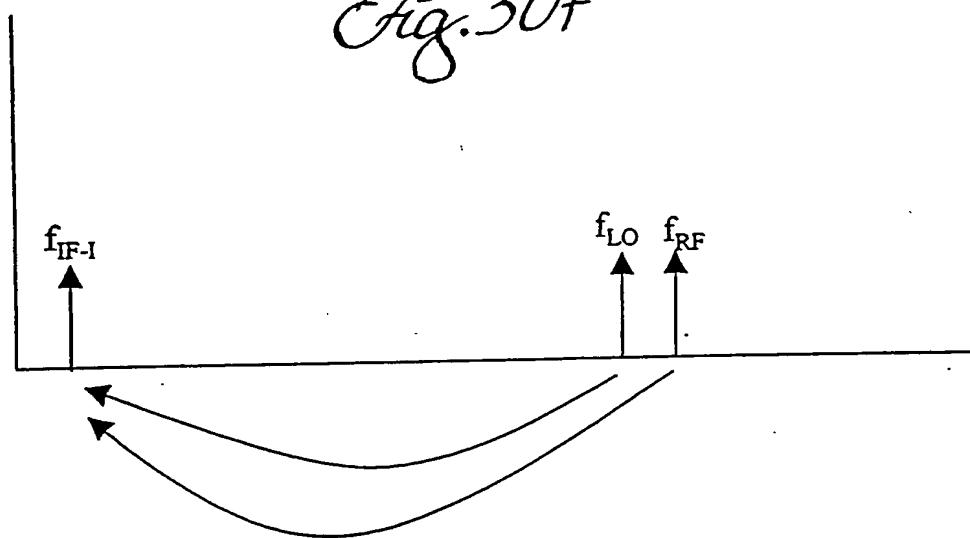
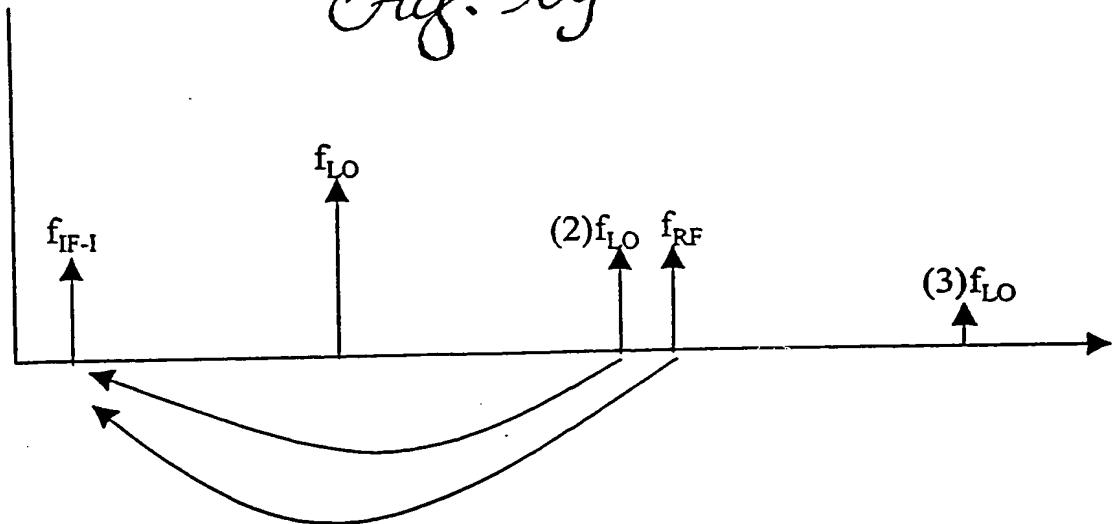


Fig. 30g



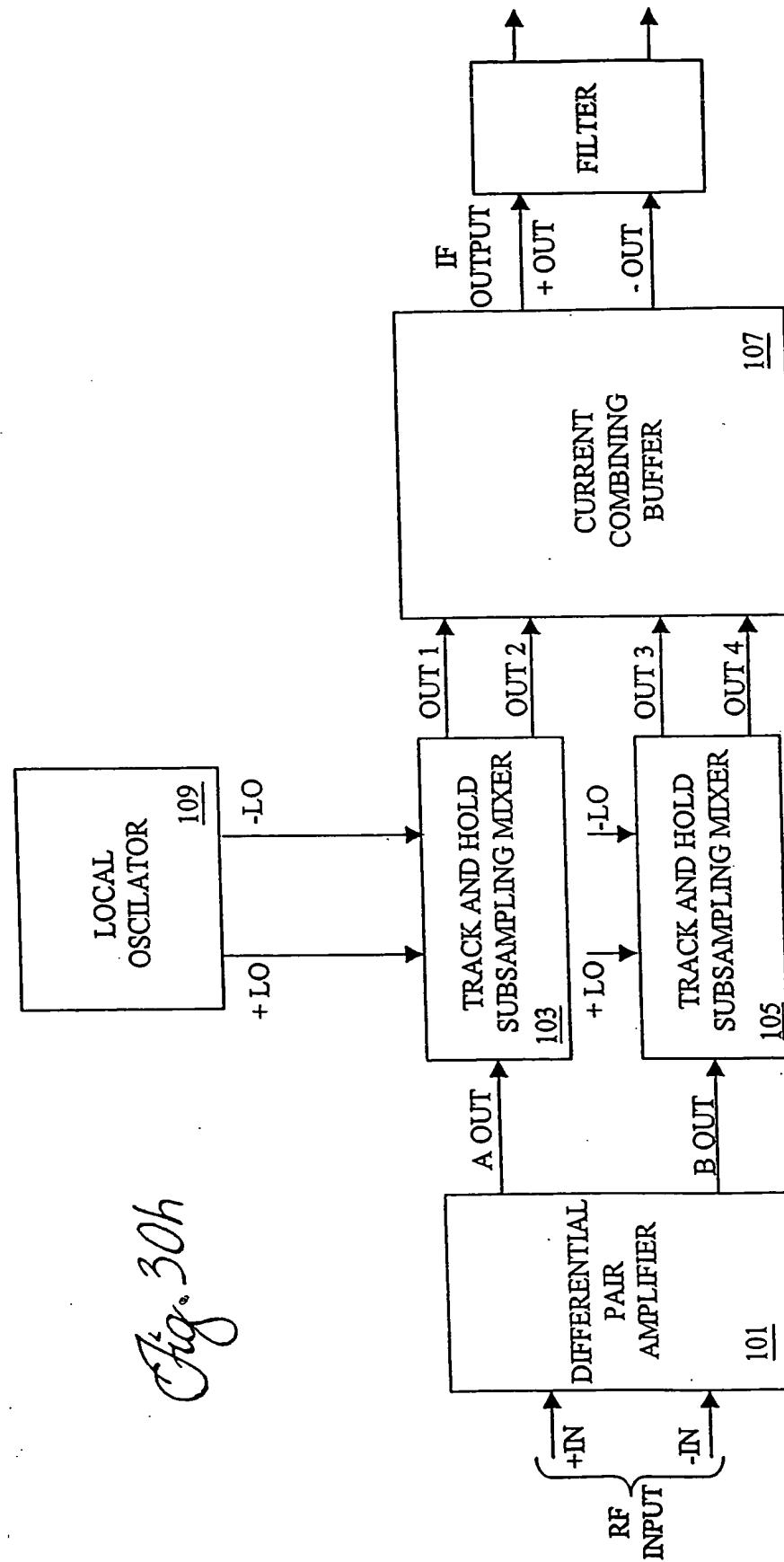
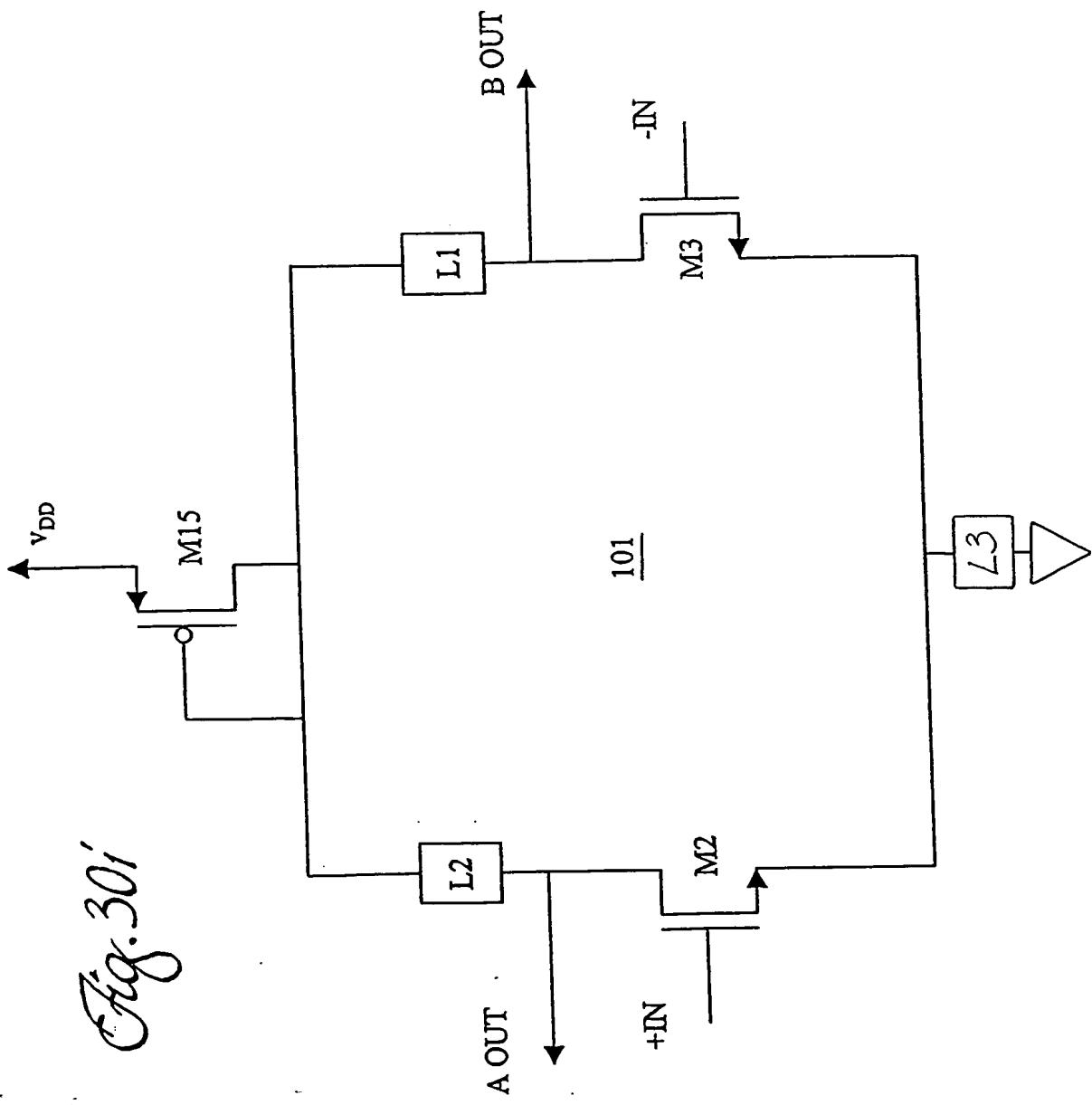




Fig. 301



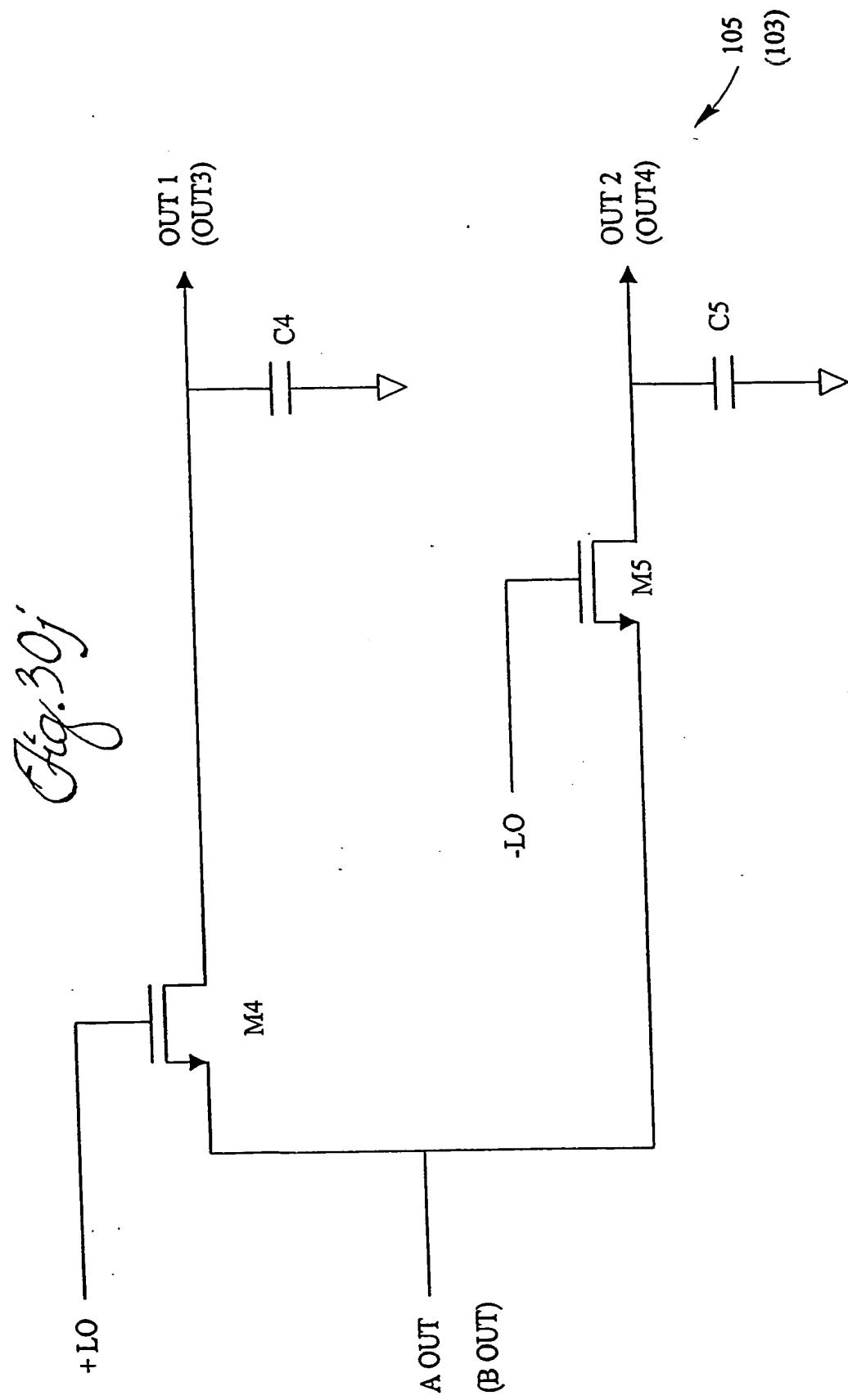
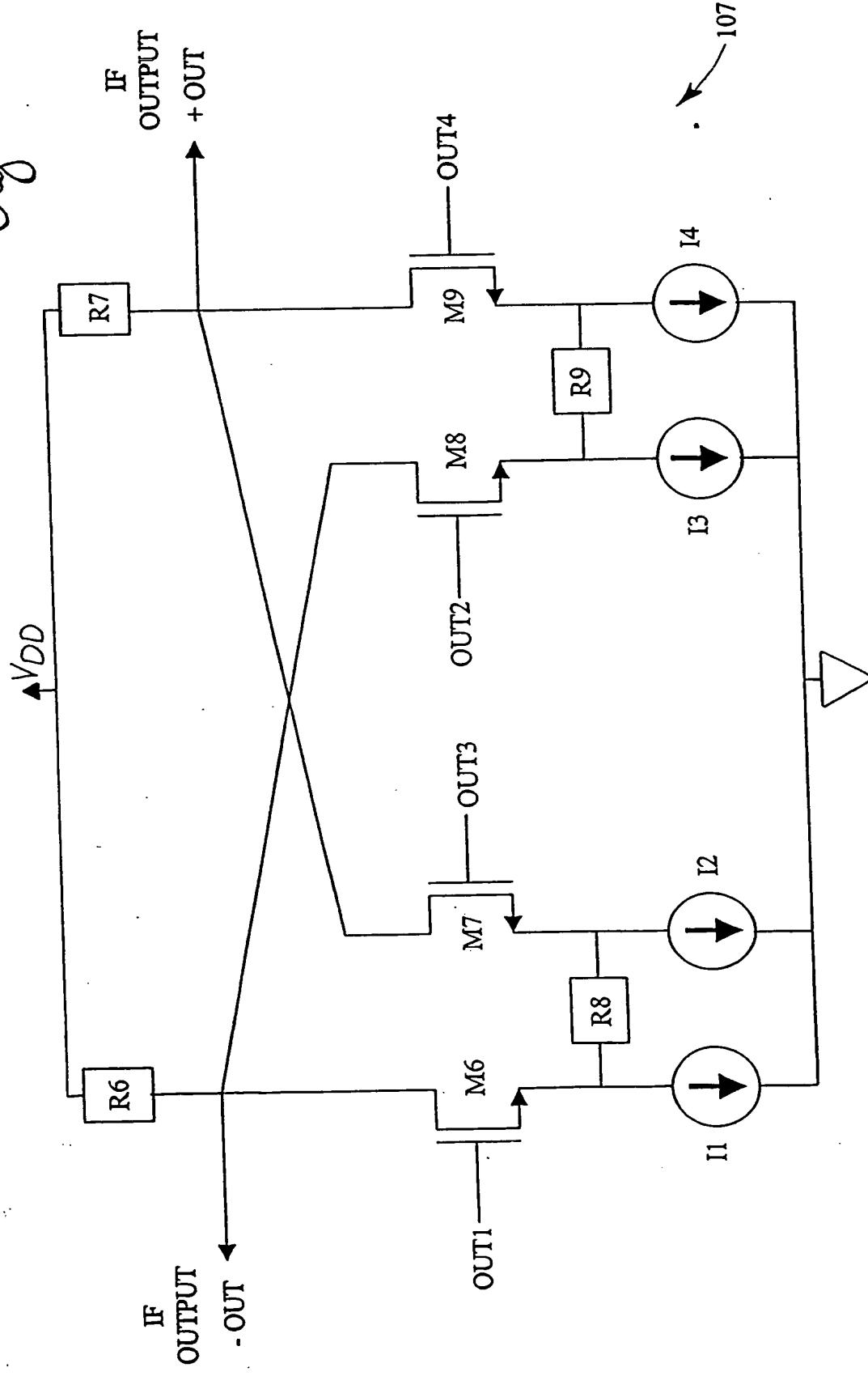
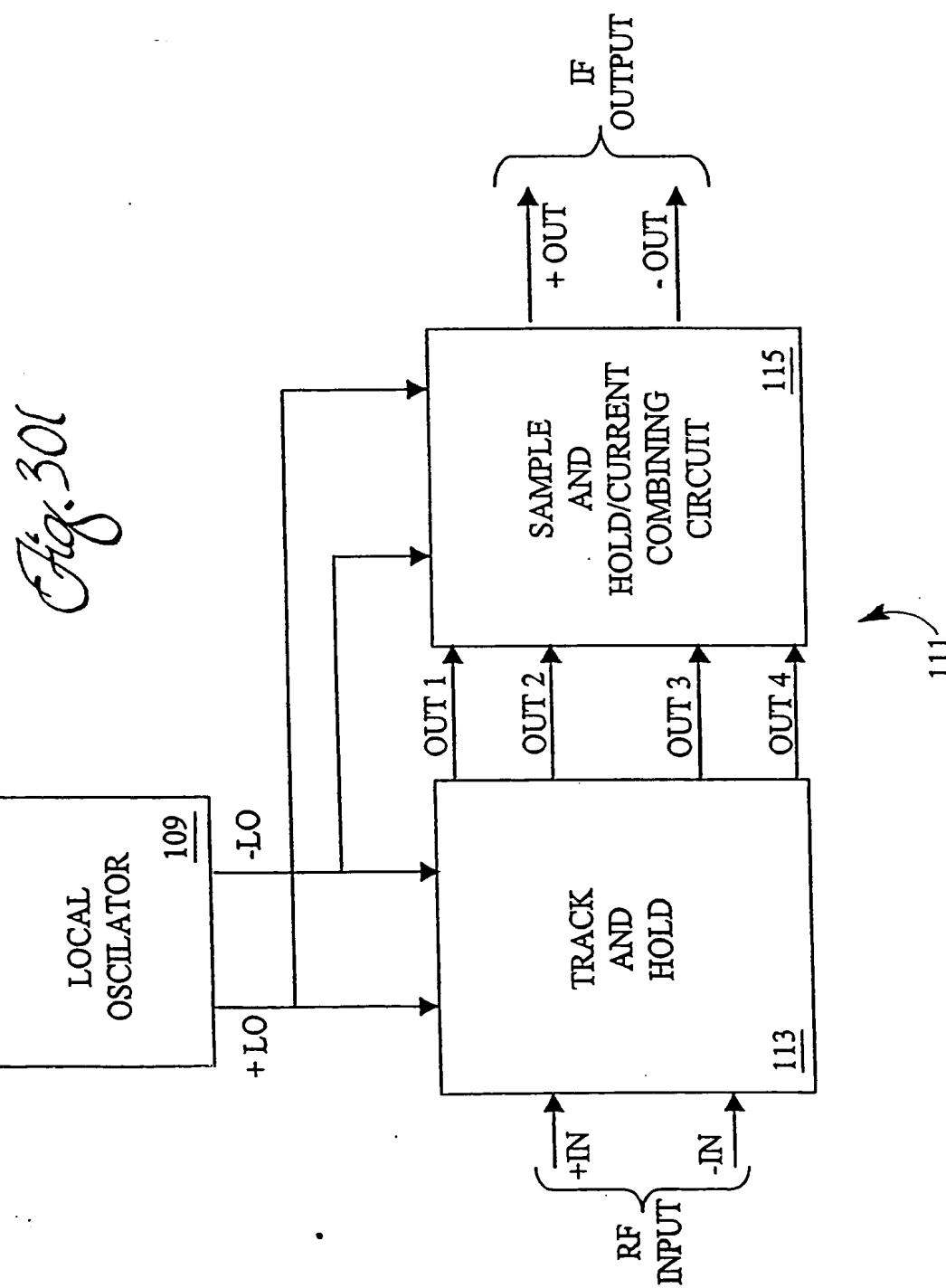


Fig. 30K





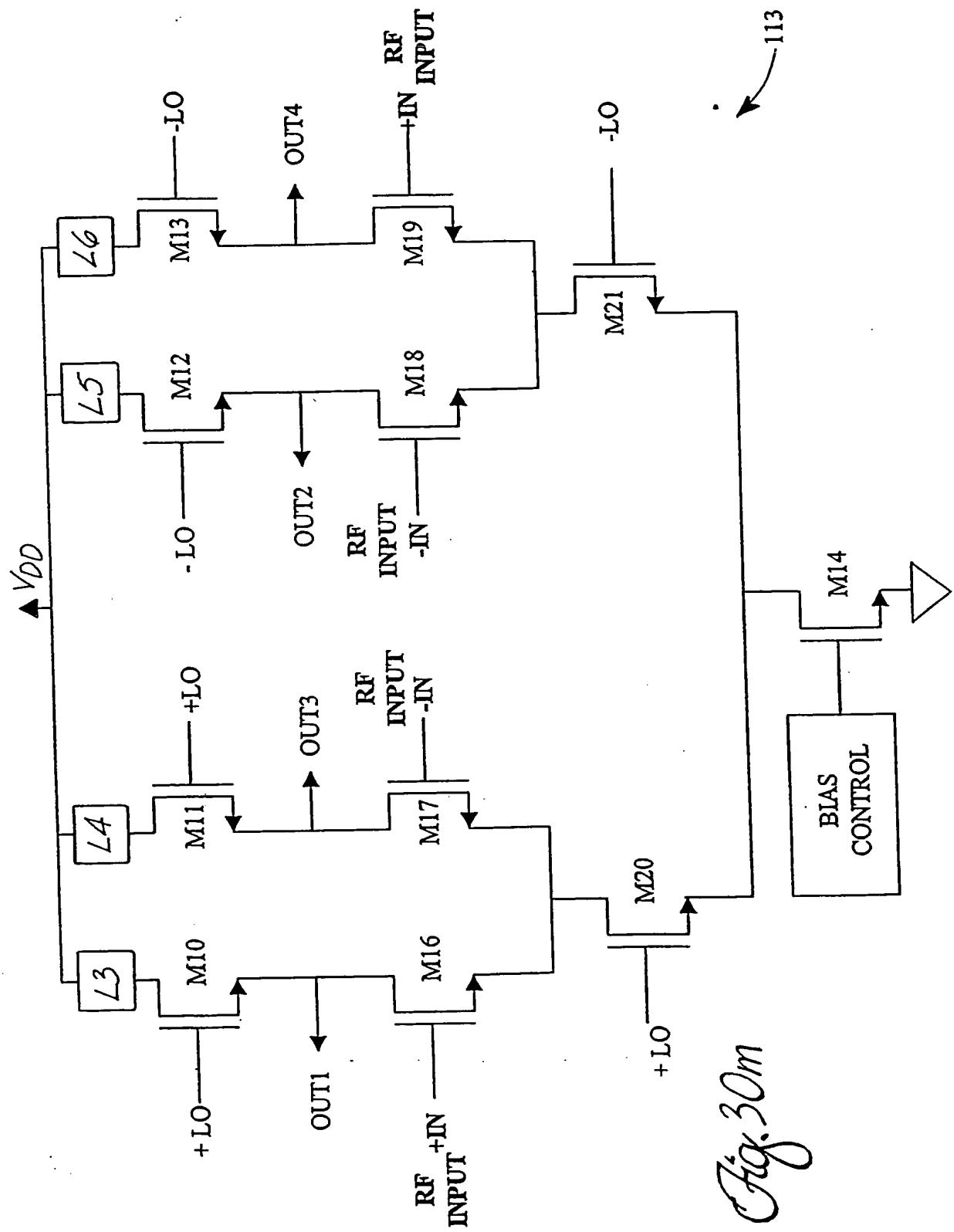


Fig. 30m

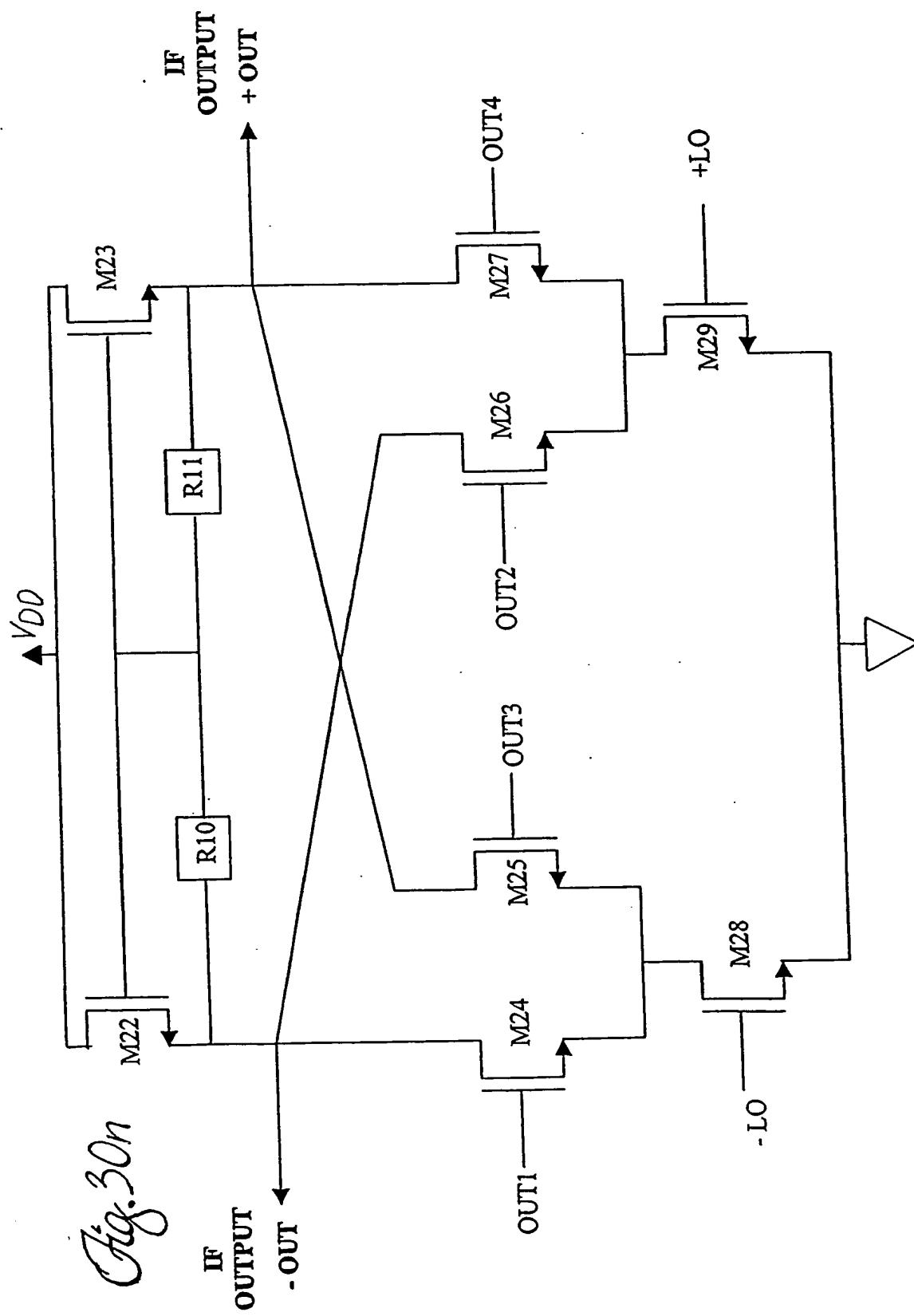




FIG.31a

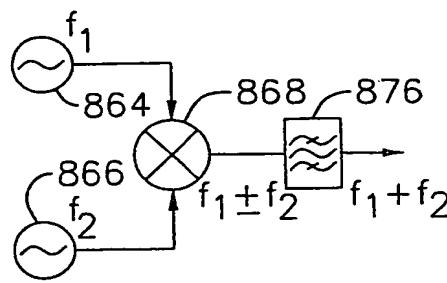


FIG.31b

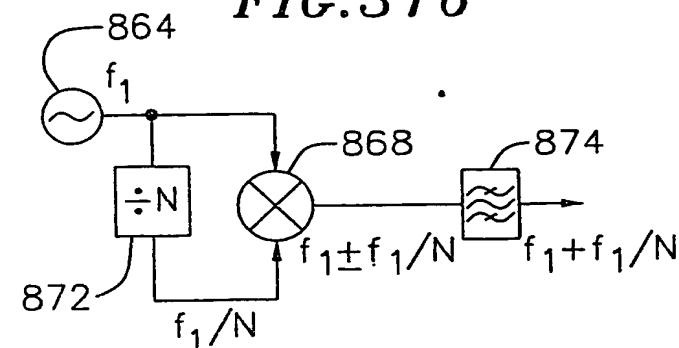


FIG.32

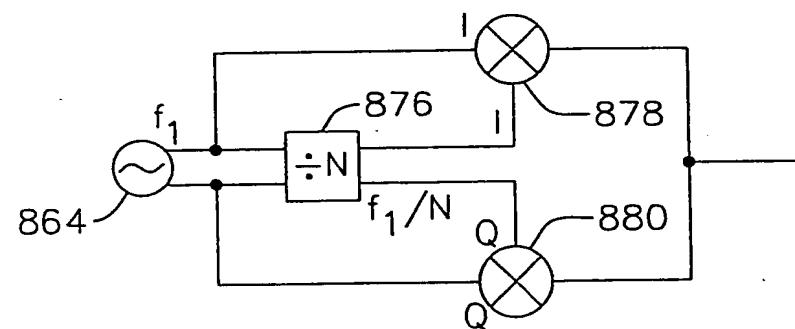


FIG.33

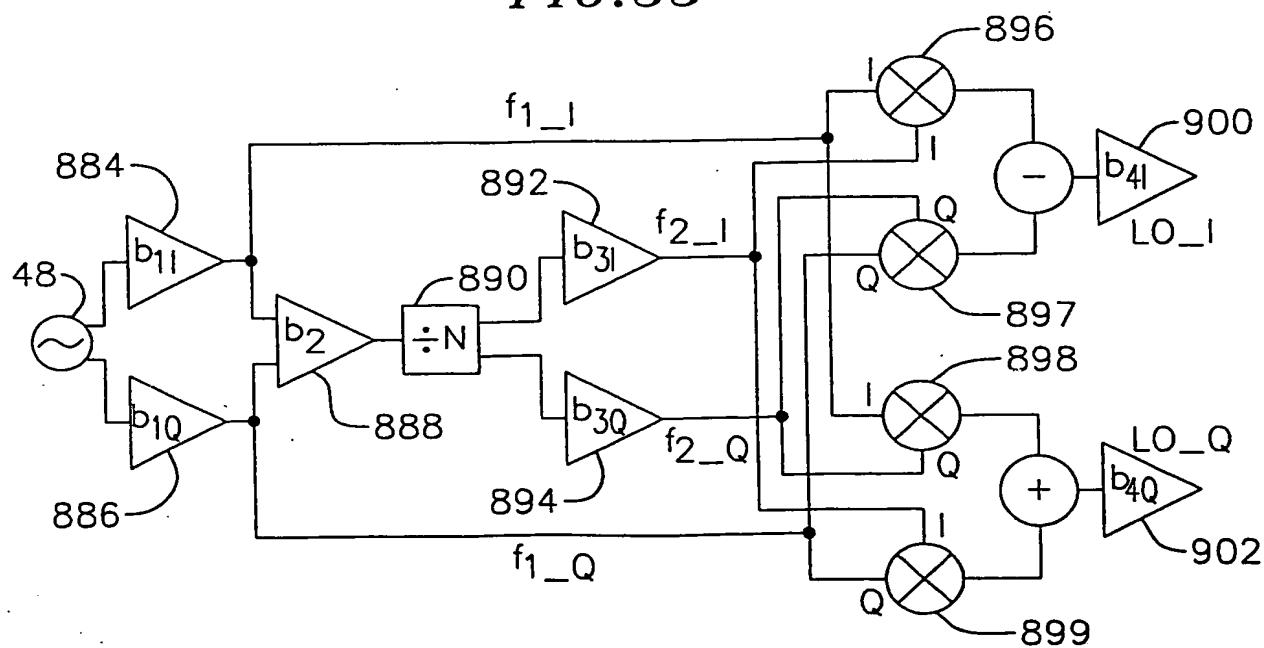




FIG.33b

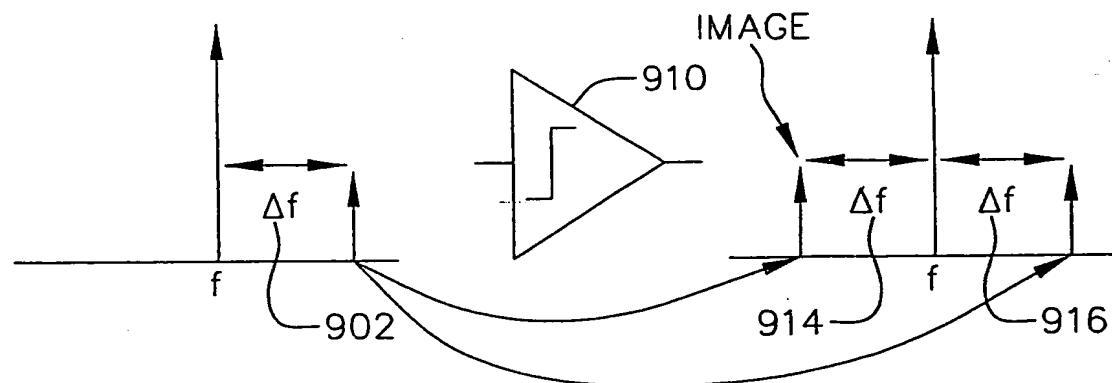


FIG.34

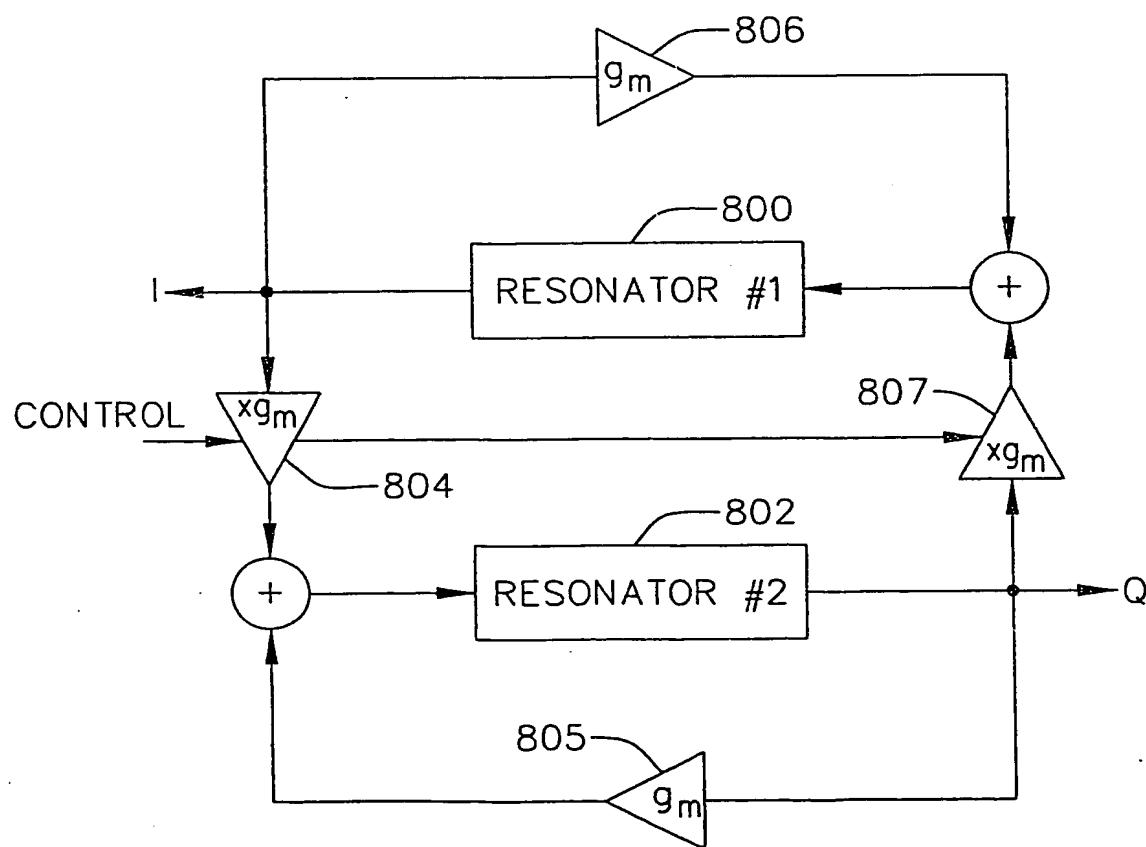
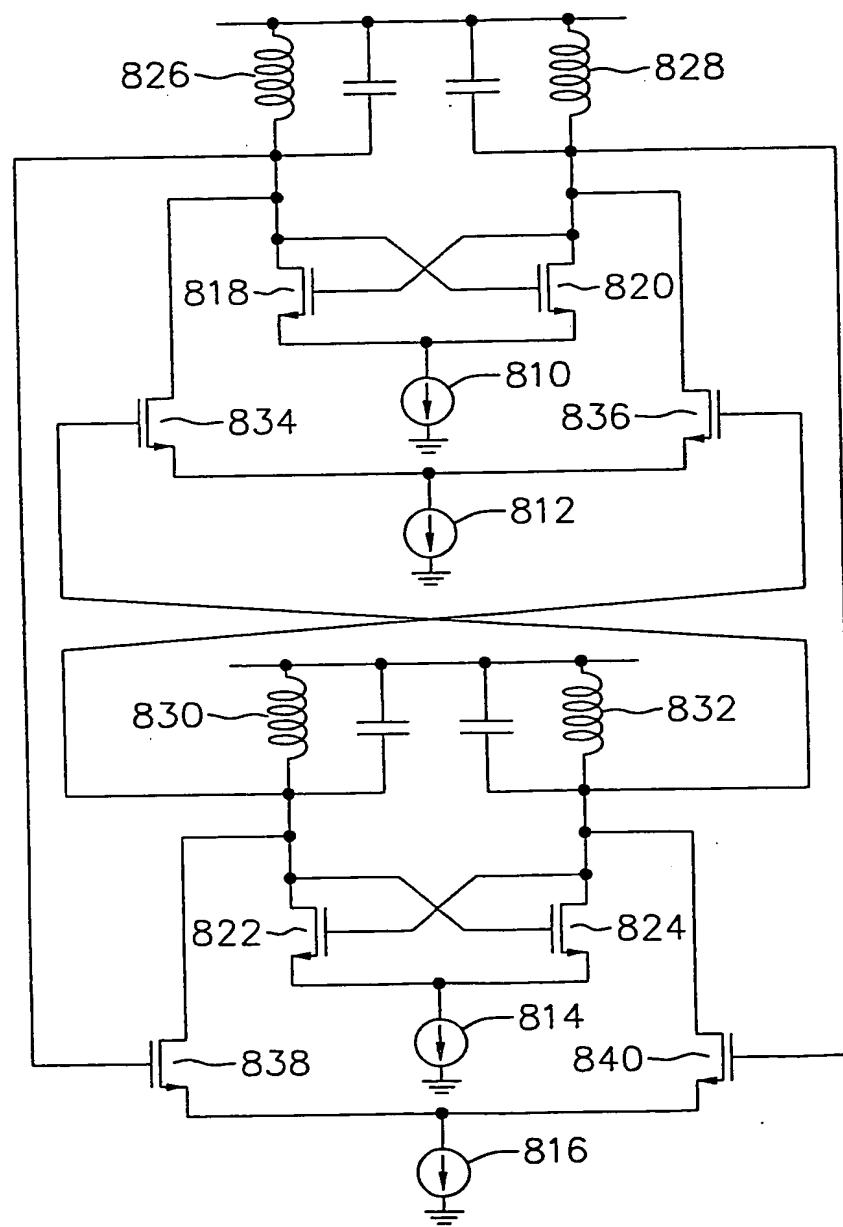
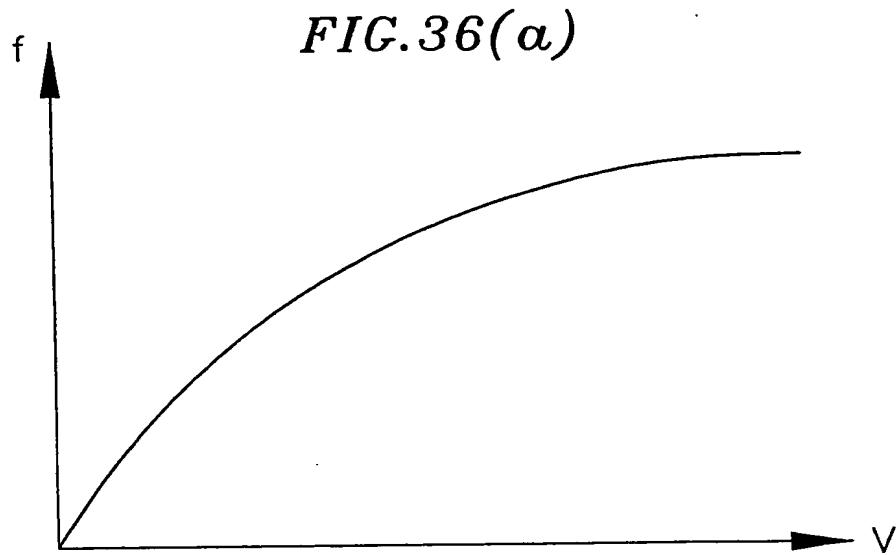


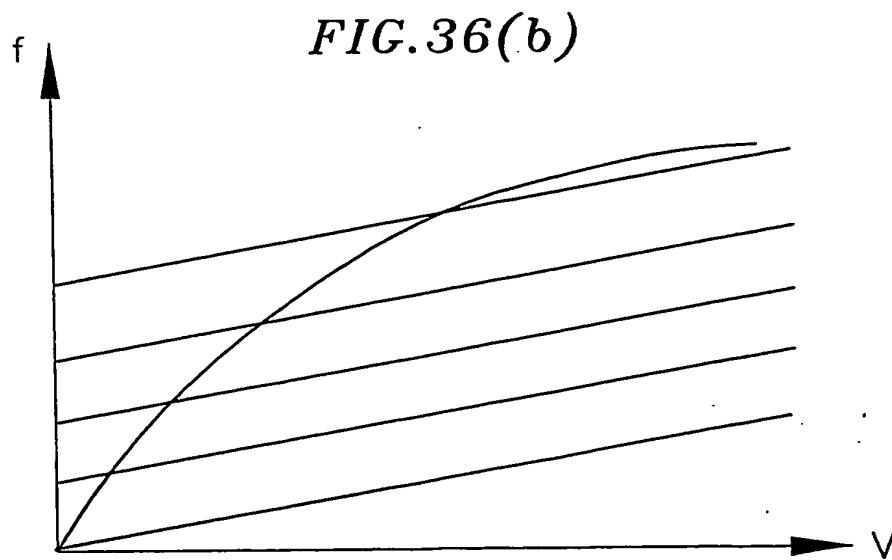


FIG.35





TYPICAL VCO TUNING CURVE



SEGMENTED VCO TUNING CURVE



FIG.37a

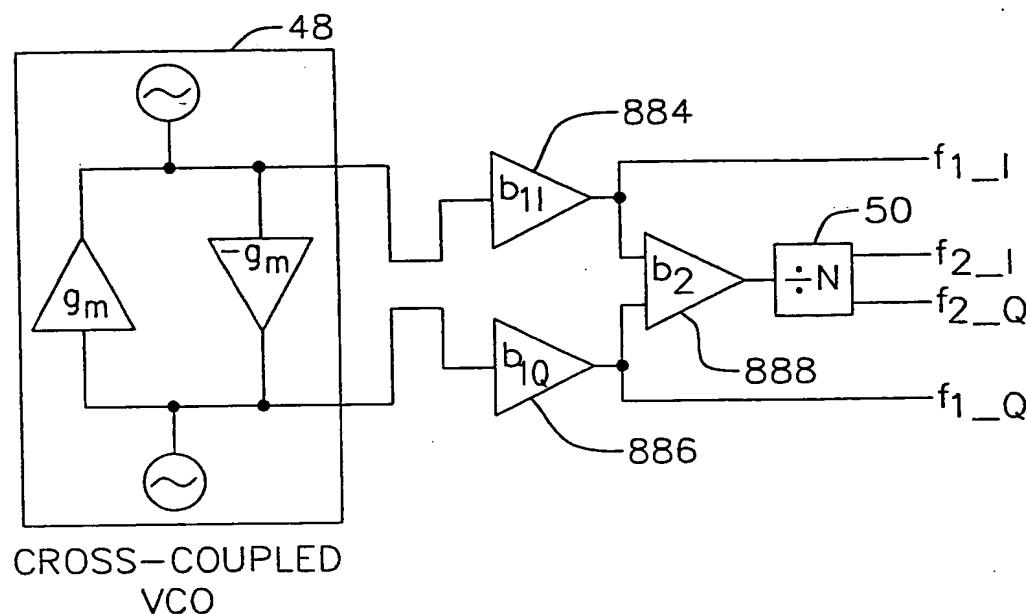


FIG.37b

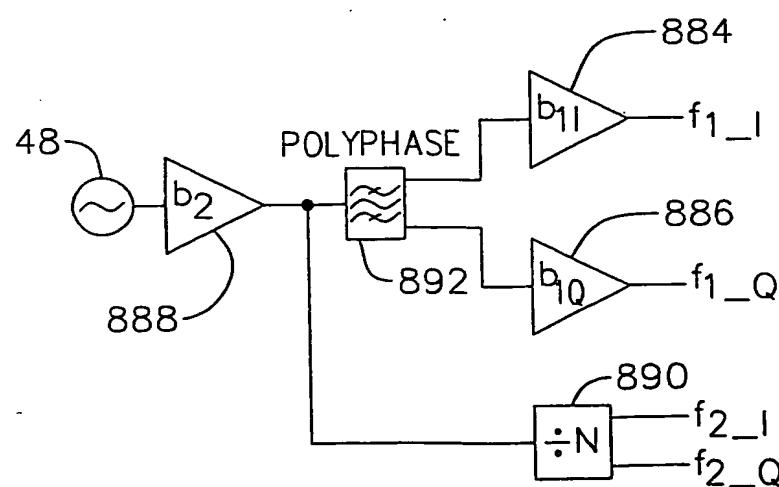
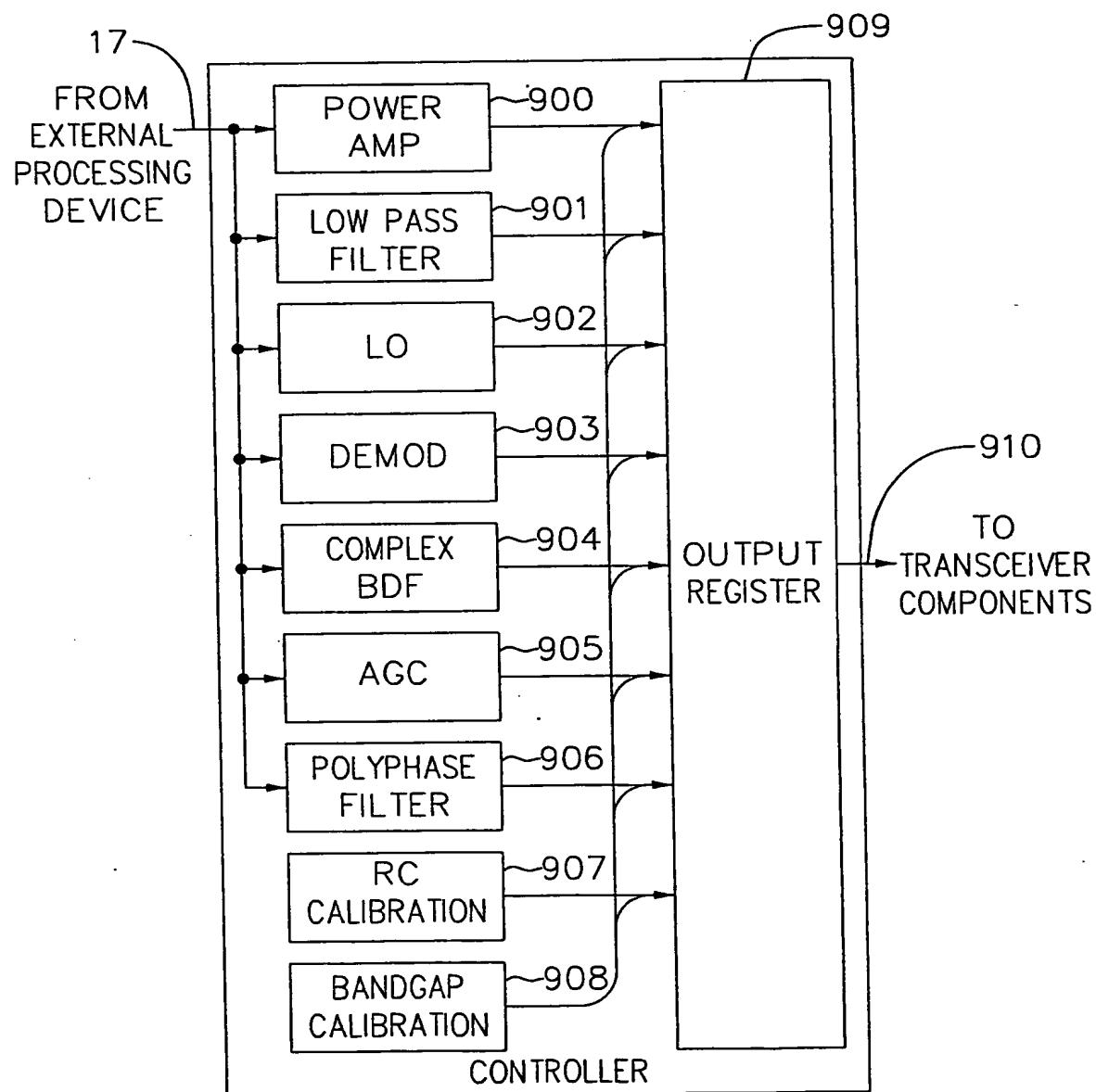




FIG.38



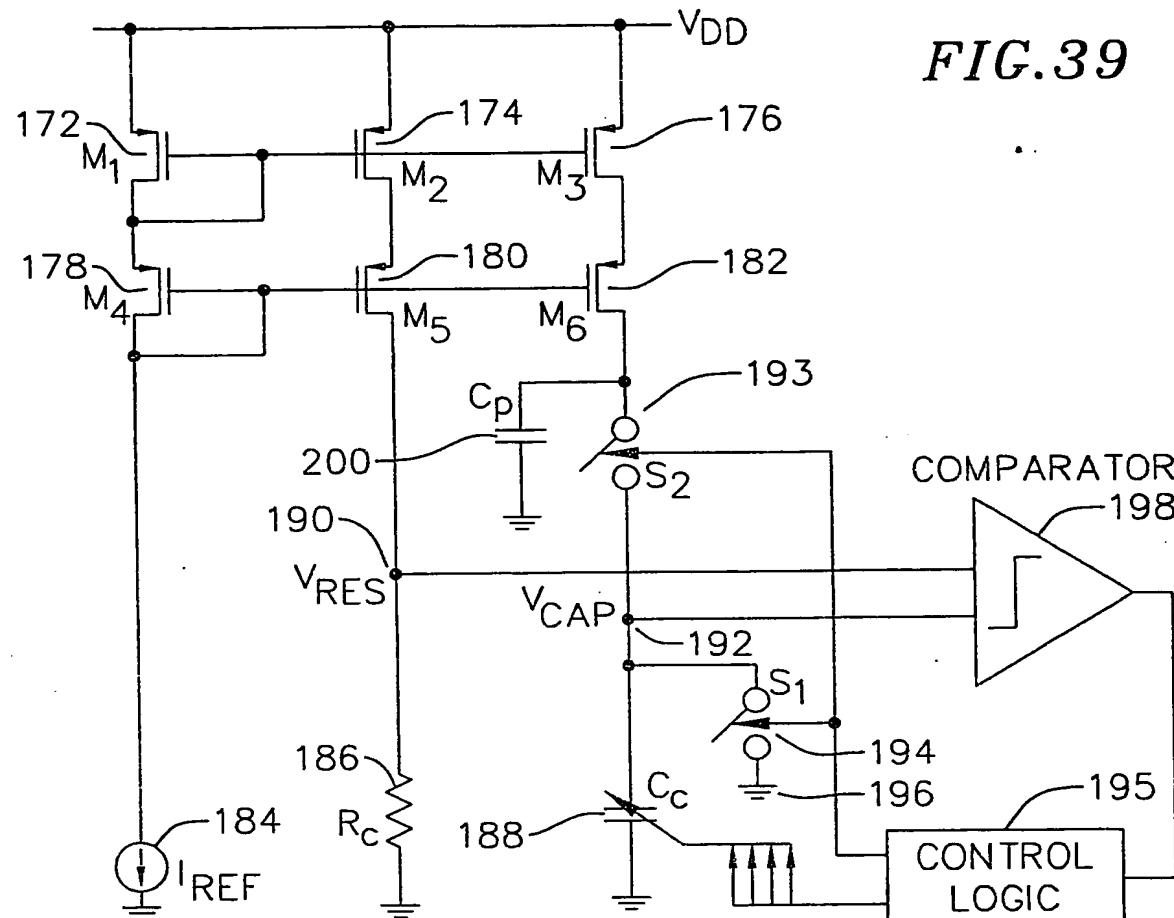
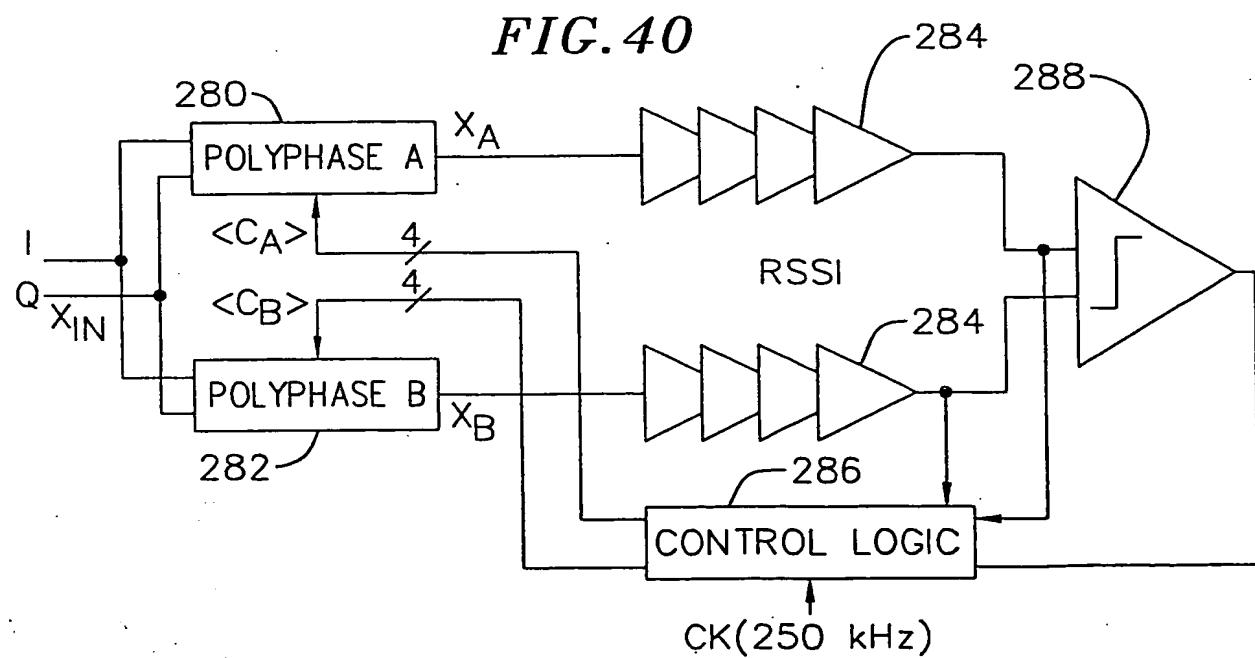


FIG. 39



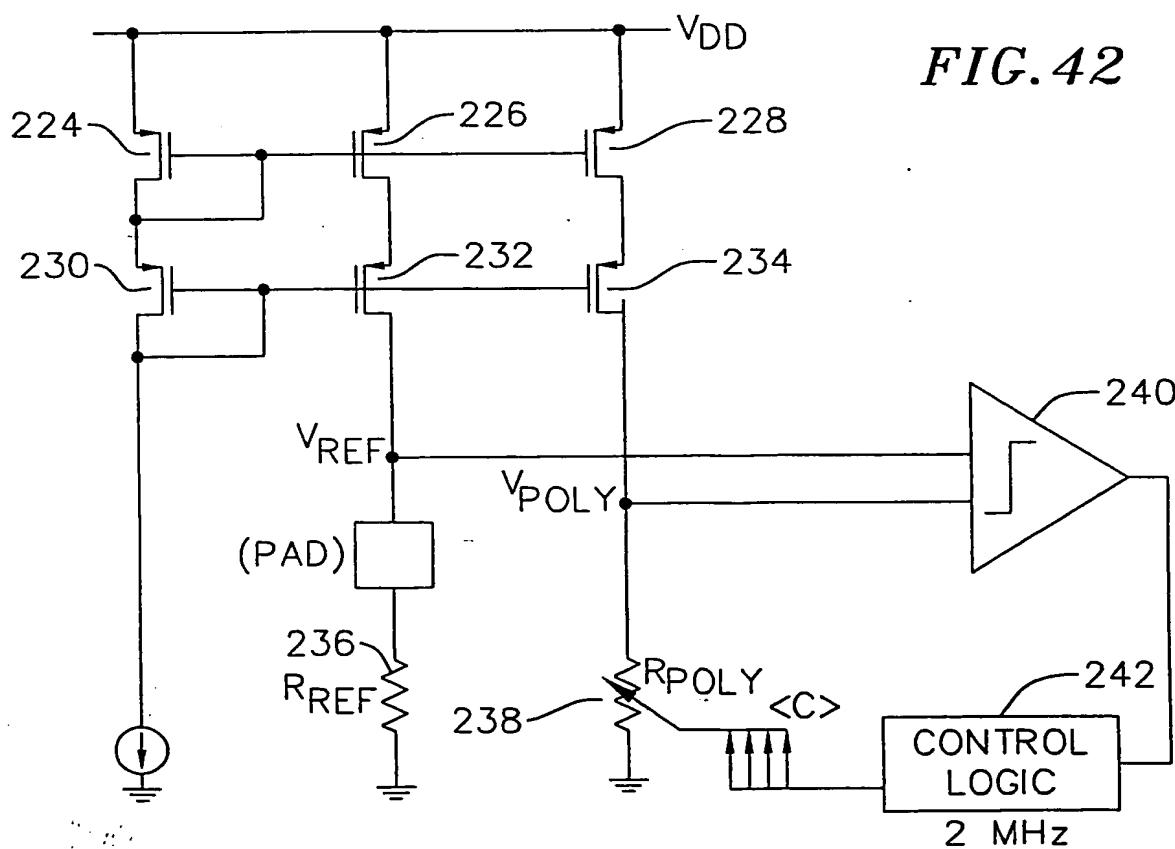
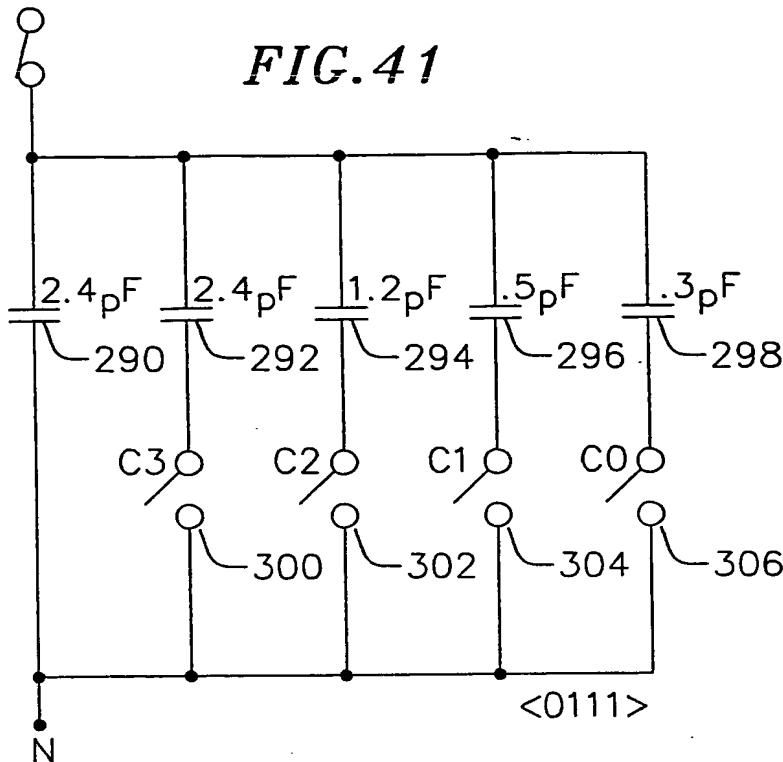




FIG.43

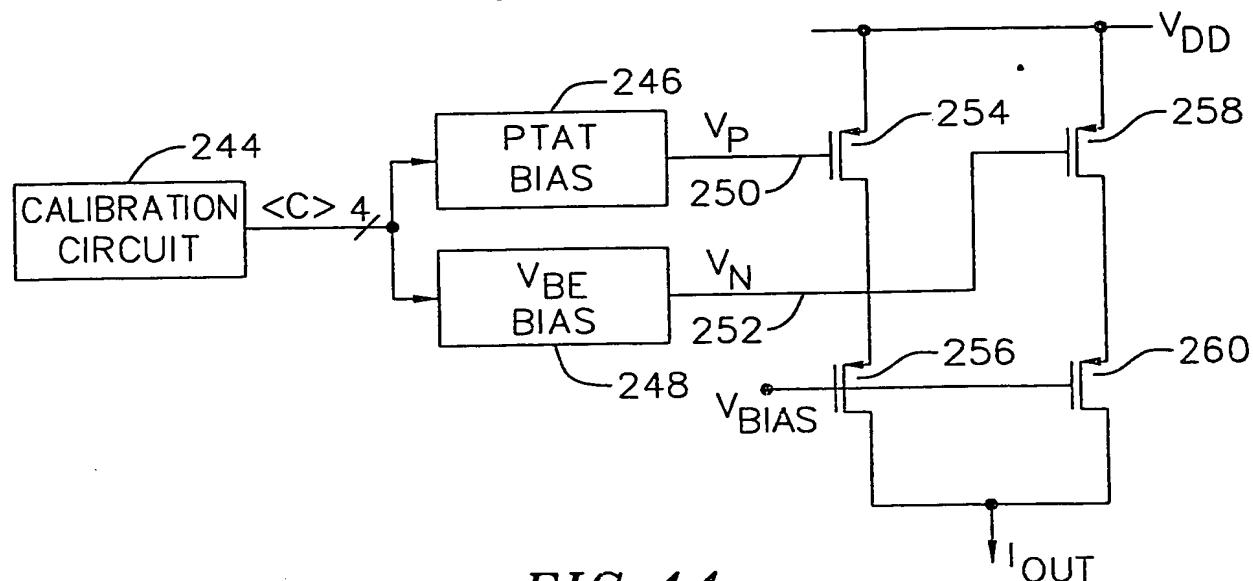


FIG.44

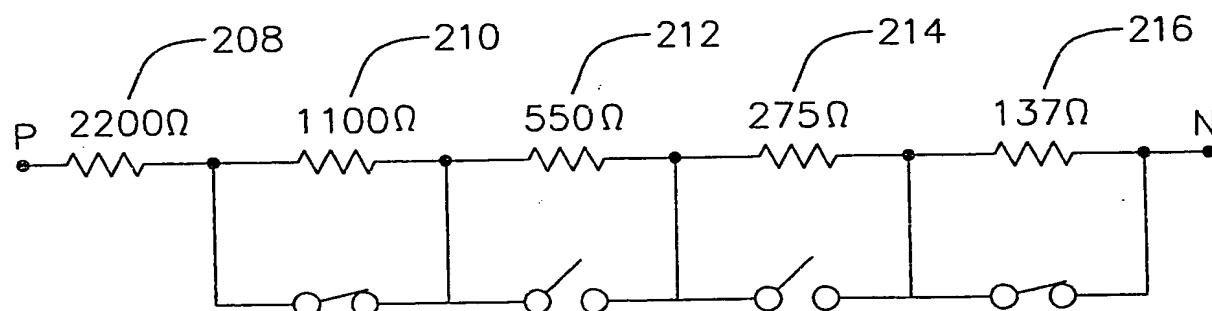


FIG.45

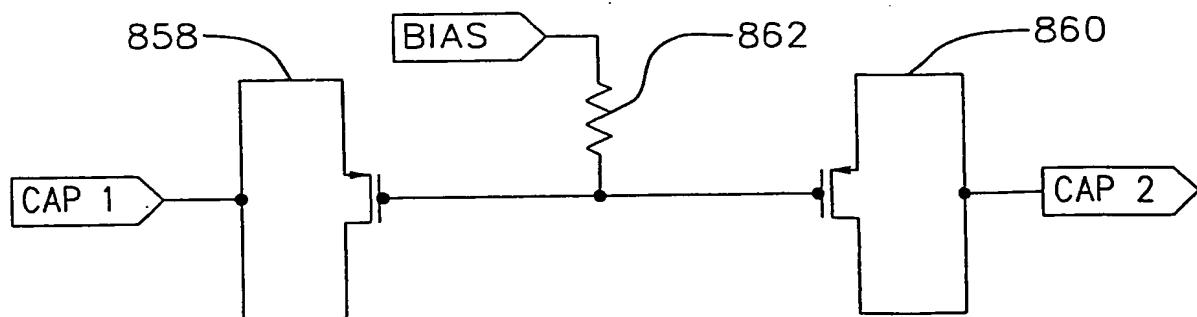




FIG. 46

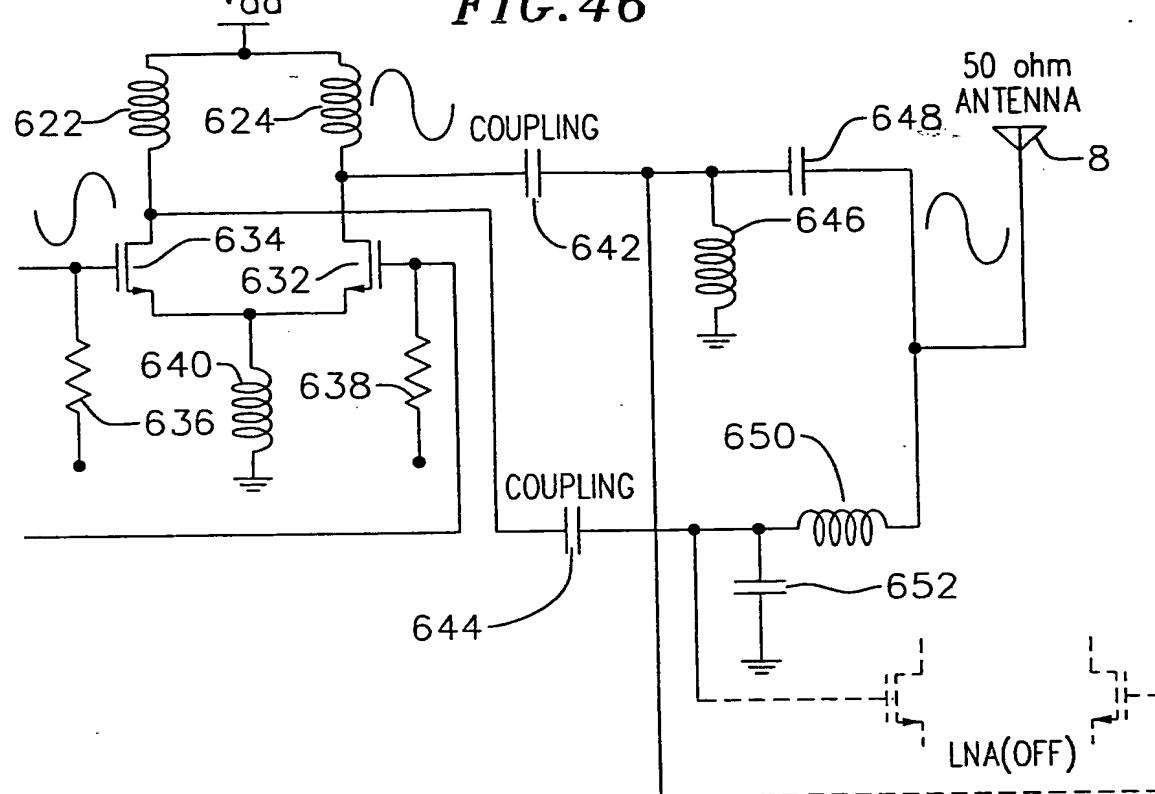


FIG. 47

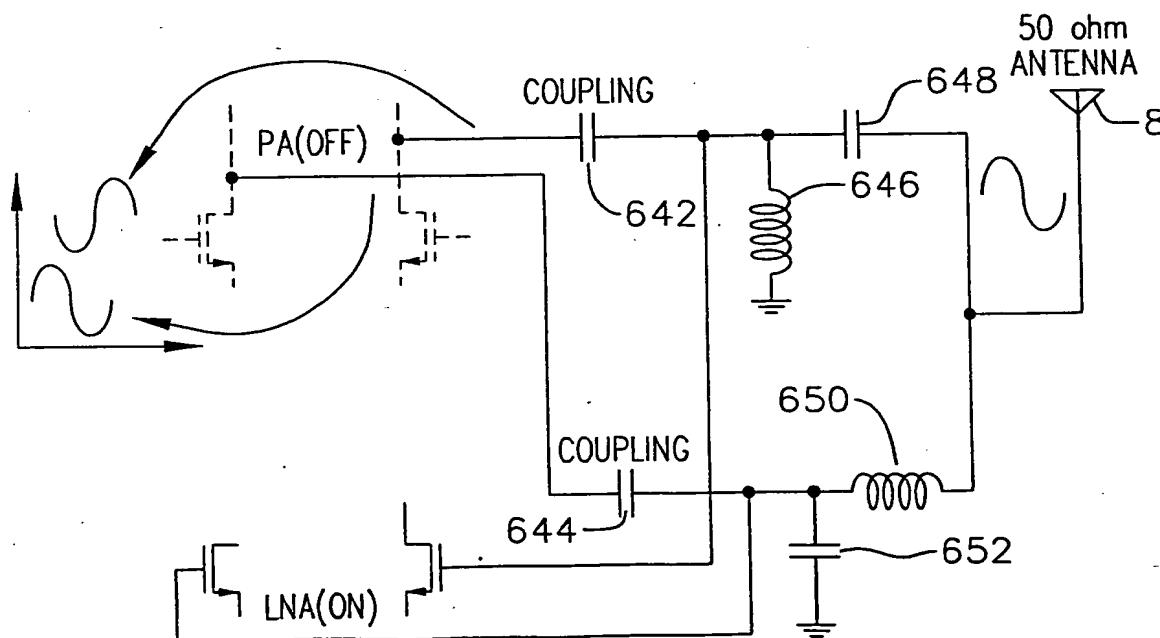




Fig. 48a

